

# ELECTRONIC GOLDMINE

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# FULL LINE PRODUCT CATALOG

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4  
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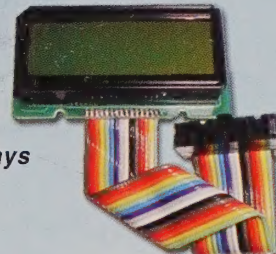
Transistors



LEDs



Displays



Robots



Voltage Regulators



ICs



Connectors



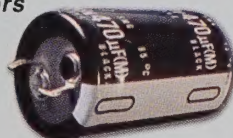
Gears / Sprockets



Solar



Capacitors



Fans



Jacks



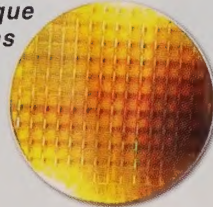
Batteries



Potentiometers



Unique  
Items



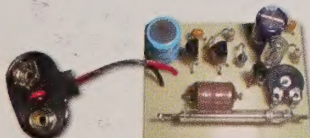
Relays



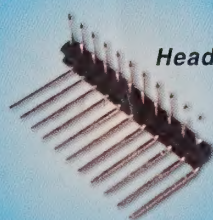
Test  
Equipment



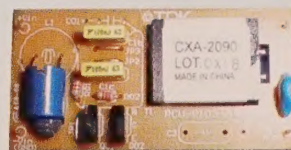
Speakers



Kits



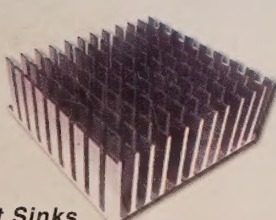
Headers



Voltage Converters



Tools



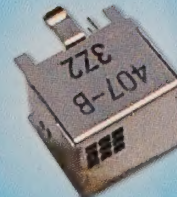
Heat Sinks



Adapters



Motors



Infrared

more than

**4000**

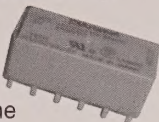
items  
online



## Aromat S2EB-5 Polarized 5VDC Relay DPDT 4Amp Contacts

Aromat S2EB-5 relay features a polarized 130Ω 5VDC coil and four separate sets of contacts giving the equivalent of DPDT contacts. Contacts are rated 4Amp @ 250VAC or 3Amp @ 30VDC. Has 12 PC pin terminals. Sealed case is 1.11"L x .48"W x .40"Tall. Worth about \$15.00. Brand New!

**G15227 \$4.99 ea.**



## Compact 12VDC SPDT Relay TRU-12VDC-FB-CL

Made by TTI this 12VDC relay features SPDT 12A @ 120VAC contacts. Fully enclosed with PC board pins. Size only .65"W x .80"L x .80"H.

**G15187 \$1.49 ea.**



## EP2R-B3G1 6V "H" Bridge Relay

This unique relay consists of two 225Ω coils and two sets of contacts. Each coil operates on 6VDC. Depending on which coil is operated different relay contacts operate. See [http://www.nec-tokin.com/english/product/pdf\\_d1/relay\\_automotive\\_notes\\_e.pdf](http://www.nec-tokin.com/english/product/pdf_d1/relay_automotive_notes_e.pdf) for details. Size is about .62" x .94" x .61"H. Made for PC board mounting. Fully enclosed case.

**G14951 99¢ ea.**



## Potter & Brumfield T9AS1D12-12 12VDC Relay with 30Amp Contacts

Powerful relay by Potter & Brumfield is fully enclosed and designed for PC board mounting. Features SPST N.O. 30Amp @ 240VAC contacts. Coil resistance about 140Ω. Size about 1.25" x 1.05" x .77" tall.

**G14855 99¢ ea.**



## Zettler AZ2100-IC-24DE 24VDC Relay

Powerful enclosed relay features 24VDC coil and SPDT 30Amp @ 277VAC contacts. Size 1.08"W x 1.25"L x 1.08"H. Has 5 PC pins on bottom and quick connect spade terminals on top (for contacts connections if desired).

**G15186 \$1.99 ea.**



## NAIS 12VDC Relay JSI-12V

Compact relay type JSI-12V by NAIS features 12VDC coil and SPDT coil rated 10Amps @ 125VAC. Size only .86"L x .62"W x .63"Tall. Has 5 PC mount pins. Fully sealed.

**G15203 \$1.49 ea.**



## Sensitive Type SPDT 12VDC Relay Aromat DR-12V

Aromat DR-12V sensitive polarized coil relay features SPDT 1Amp contacts. Case is metal and plastic with a size of only .78"L x .39"W x .33"H. Has 6 PC pins for hookup. Coil resistance is about 1380Ω so it requires less than 10mA to operate (sensitive type).

**G15240 \$1.99 ea.**



## Precision 10 Turn 1.5K Potentiometer

High quality panel mounting multiturn potentiometer by Duncan. This precision 1.5K 10 turn potentiometer features a standard 3/8" bushing, a panel mounting nut and 1/4"Dia. x .46"L shaft for knob. Worth much more than our low price.

**G15370 \$4.99 ea.**



## Large Rheostat Omite Model G 70Ω 2.73"

Large ceramic base panel mounting rheostat with standard 3/8" bushing and 1/4"Dia. x .5"Long "D" shaft for knob. Rated 70Ω 1.03Amps. Has heavy duty wire windings. Complete with panel mounting nut.

**G15197 \$9.95 ea.**



## Giant Power Rheostat 3Ω 4"Diameter

Giant panel mounting ceramic base rheostat by Ohmite is marked 3Ω 7.07A. This features heavy duty wire windings and standard 3/8" panel mount bushing. The shaft is a 1/4"Dia. x 7/16"L type with 2 flat surfaces so that a set screw knob (not included) can be attached securely to it. New- Complete with panel mounting nut. Regular price \$49.99.

**G15194 \$24.99 ea.**



## Smaller Rheostat 4Ω .9"Diameter

Panel mounting ceramic base rheostat by Ohmite features standard 3/8"Dia. panel mount bushing and .8"L 1/4"Dia. metal shaft for knob. Rated 4Ω 1.8Amp. Has heavy duty wire windings. New- Complete with panel mounting nut.

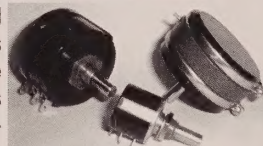
**G15196 \$4.99 ea.**



## Precision Multiturn or Continuous Turn Wirewound Potentiometer Assortment

Assortment of wirewound precision potentiometers with shafts for knobs. These are very expensive types made by Beckman Instruments, Bourns, Spectrol, etc. Sizes and values vary. Each assortment is different and all potentiometers are new. Most have panel mounting nuts but some use a screw (not included) to mount to the panel. Some of these had original price stickers of \$100 on them! Assortment of 3 different precision potentiometers.

**G15300 \$12.00**



## Deluxe Potentiometer Assortment

Here's a large variety of quality potentiometers. Most are panel mount but some are PC mount. Standard and miniature types. Single and multiple gang types. Some are screwdriver adjust. All are brand new! Sorry no hardware included. Each assortment is different.

**G15372 \$3.99 Package of 10**

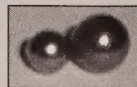


## Large Metal BB

We aren't sure what kind of metal these are made of but they are larger than your average BB.

**Small .19"Dia. G15310 20/\$1.00**

**Large .25"Dia. G15311 15/\$1.00**



## Small 20K Horizontal Trimmer Resistor with Knob

Nice quality 7.3mm horizontal PC mount trimmer resistor features a grey body with a black adjustable knob on top. Has 3 PC board mounting legs.

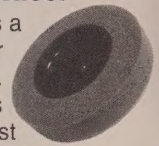
**G15348 10/\$1.00**



## Large Foam Covered Robotic Wheel

Large 5"Dia. x 1"Thick wheel features a solid plastic wheel at the center bonded to a 1"Thick outer foam wheel. Center bore is .35"Dia. and is 1.25"Long. Great for robots that must travel on carpets or uneven ceramic tile surfaces.

**G14947 \$3.49 ea.**



## 0-10 Push On Instrument Knob

Black knob pushes onto "knurled" type 1/4" shaft and features the numbers 0-10 in white. These are found on many guitar amplifiers, instruments, appliances, etc. Overall size about 1.5"Dia.

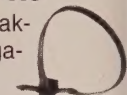
**G14804 59¢ ea.**



## High Quality 8" Long Black Cable Tie

Perfect for holding bundle of wires or making a nest of computer cables look organized. Locking type.

**G14367 9/99¢**



## Heavy Duty Chrome Plated Chain with Mounting Terminal Lugs

Chrome chain is very nice quality and is about 7" long. On one end is a heavy duty metal hold down eyelet and on the other is a screw mount stadoff.

**G15272 \$1.49 ea.**



## Precision Black and Silver Set Screw Knob

Nice quality heavy duty precision made knob for 1/4" shaft features 2 set screws to lock onto shaft. Has white pointer and aluminum insert. Size about 1.36"Dia. x .85"Tall. Made for U.S. government. Brand new!

**G15349 \$1.49 ea.**



## Polymeric Coated Black Cloth Automotive Wire Harness Tape

This tape is similar to duct tape only its black in color. It is commonly used by automotive manufacturers for wiring harness use. It can withstand high temperature, is strong and its great for general purpose electrical/electronic use. The adhesive isn't the super sticky type (just like the adhesive on duct tape- this tape can be pulled off easily). These are full reels of Polyken® 268 tape.

**1/2" Wide 100ft role G14925 99¢ ea.**

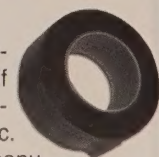
**1" Wide 100ft role G14926 \$1.49 ea.**



## Fusion Repair Tape

This unique tape forms a water resistant seal by fusion. Simply peel off backing, stretch, then wrap several layers over your connection, wire, pipe, etc. Made in Great Britain. Roll is sealed manufacturer bag with instructions and is 1" wide x 10ft long.

**G15228 \$5.00 ea.**





### Full Box of 50 Super Sharp #67 Solid Tungsten Carbide PC Board Drills

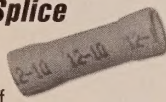
This is a very common size for drilling holes in PC boards for transistors, ICs, LEDs, small radial capacitors, 1/4W resistors, etc. These look brand new however they have been precisely repointed once for a PC board manufacturer which closed. They must be used in a small drill press or you must be very careful if using a handheld power tool. Even though each bit can drill thousands of holes, they can break easily if you don't use a drill press. Made by Tycon. Size 1.5" Long, 1/8" shaft, .0320" tip diameter (#67). These are over \$2.75 each when purchased from the manufacturer. Full box of 50.



**G15173 \$40.00**

### Large Insulating 12-10 Butt Splice

Made by Amp this heavy duty crimp type butt splice can handle 12 to 20ga. wires. Simply strip the ends of the 2 pieces of wire, insert into butt splice and crimp with crimping tool. Yellow heavy duty insulation- Highest quality.



**G15199 5/\$1.00**

### Large Peel & Stick Rubber Bumpers

Large .75"Dia. x .25" tall rubber bumpers/feet protects desktops and furniture from getting scratched by equipment. Simply peel off from backing sheet and apply to any smooth clean equipment surface. The adhesive on these allow them to be removed again if necessary. Package of twelve feet.



**G14844 99¢ ea.**

### T03 Metal Insulator

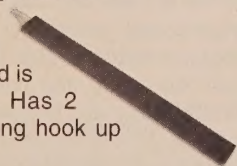
Special T03 metal insulator conducts heat like mica but is much sturdier. Coated with a special scratch resistance thermal conductive but electrically insulated coating.



**G15314 \$1.00 ea.**

### 24Watt Rubberized Strip Heater

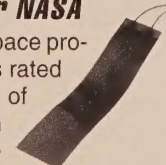
This heater strip is about 12"L x 1"W x .04" Thick. It operates on 110V to 120VAC or DC and is rated 24Watts @ 115Volts. Has 2 teflon coated insulated 8" Long hook up leads.



**G15294 \$5.00 ea.**

### Minco Space Heater Made for NASA

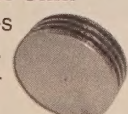
This was made for NASA for use in space programs. It is the Minco HK1178 and is rated 376Ω ± 3% 63Watts max. It consists of 2 wafer thin heating element grids on a bendable 9.5" x 2.25" sealed material. Has 2 pairs of insulated leads. New.



**G15243 \$6.95 ea.**

### Stacked Aluminum Fin Round Heat Sink

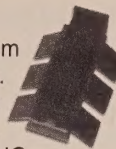
Natural color aluminum heat sink features four 1.25"Dia. fins. Total height is .40". These must be glued to your semiconductor device.



**G15275 99¢ ea.**

### DIP IC Heat Sink

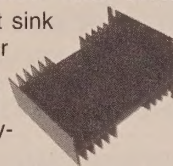
Simple to use black anodized aluminum heat sink is designed for use with dip ICs. Very unique mounting clip design just slips under the IC when you install the IC. The clip presses against the top of the IC.



Part# "A" 5802.  
**G15267 \$1.00 ea.**

### Large Black Anodized Aluminium Heat Sink

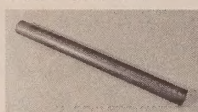
This 4" tall x 3"W x 1.24" thick heat sink features a 2.25 x 3" base to allow for vertical mounting. Has predrilled holes for mounting two T03 metal case semiconductors. High quality-heavy duty for efficient cooling.



**G14834 \$3.49 ea.**

### Amazing Super Thick Wall Heat Shrink

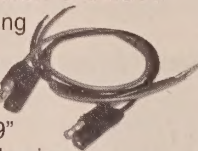
This heat shrink is about .93"Dia. to start out, however when heat is applied it shrinks to about .43"Dia. with a .13" thick solid stiff wall. Very heavy duty. Made by AMP. One foot piece. Great for making strain fittings.



**G14891 \$2.99 ea.**

### Heavy Duty 2 Conductor Quick Connect

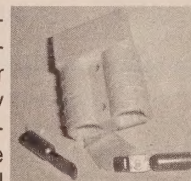
This item is perfect for connecting one removable electronic product to a stationary one. Consists of two separate plugs that mate together. Each connector has 9" long color coded heavy duty flexible wire leads. You get two mating plugs as described



**G15316 99¢**

### Anderson Power Products Heavy Duty SB Connector Rated 50Amps

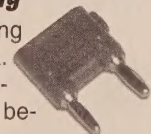
Type SB50A connector by Anderson is standard in solar installations, golf cart chargers, trailer electrical light hookups, battery chargers, etc. This unique connector can mate with another just like it (no need for male and female type). Handles cable size of 6AWG down to 16 AWG. These are brand new, white in color and come with cable contact terminals. Simple to use and very reliable. New in manufacturer box with instructions. These sell for \$7.50 regularly.



**G15296 \$3.99 ea.**

### Male Dual Shorting Banana Plug

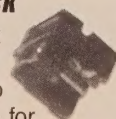
Dual banana plug with internal shorting bar. Type MDP-8 made by Pomona. Red plastic base. Has holes for connecting up to 4 plugs to it. Spacing between the two male pins is .75".



**G15192 \$2.49 ea.**

### PC Board Mount 5.5mm Male Jack

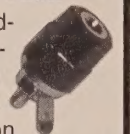
Standard 5.5mm PC mount power jack has built in N.C. switch that opens when you insert a 5.5mm female barrel plug into the jack. The center pin on this is made for 2.5mm center- 5.5mm barrel plugs.



**G15209 4/\$1.00**

### Black 3 Way Grounding Banana Jack

Very high quality panel mounting grounding banana jack allows you to plug a banana plug into the end of the jack, plug it into the side or twist the black hold down onto a bare wire. Very precision made. With panel mounting nut and solder lug.



**G15193 2/\$1.00**

### 3.5mm PCB Stereo Mount Jack

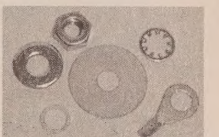
Small 3.5mm stereo jack for 3.5mm plugs (such as commonly found on stereo headphones). Low profile type with 3 pins for PCB mounting.



**G15218 5/1.00**

### Handy Complete Mounting Kit for Stud Rectifiers

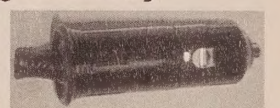
Handy mounting kit for stud type rectifiers includes nut for 12-32 stud, large mica insulator, smaller nylon washer, wire lug, star washer and regular washer. All you need to use this is thermal grease (if you wish to use it) and your tools.



**G15374 \$1.00**

### Fused Cigarette Plug Assembly

This assembly is ready for you to add your wire leads. It is brand new and screws apart to allow you to make your own custom power cord. Fuse is 3Amp. Black plastic body with strain relief.



**G15375 99¢ ea.**

### Compact Red & Black Binding Posts

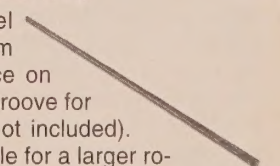
Compact binding post set consists of one red and one black panel mount binding post. These are 2 way types and will accept a banana plug on the end or you can connect a wire under the twist terminal. Complete with nuts and solder terminal lug.



**G15368 99¢/Set**

### 17 1/2" Polished 6mm Axle

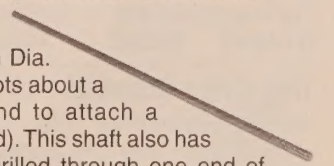
Polished stainless steel axle is about 17.5"L x 6mm Dia. It has a flat surface on each end and a slotted groove for wheel keeper clamps (not included). This would be a great axle for a larger robot as it is extremely strong, very straight and precision made.



**G15347 \$5.00 ea.**

### 16 1/2" x 6.5mm Polished Stainless Steel Axle

Nice quality 6.5mm Dia. shaft has groove slots about a 1/4" from each end to attach a keeper (not included). This shaft also has a 2mm Dia. hole drilled through one end of the shaft about .85" from the end. Great for robotic applications.



**G15344 \$4.50 ea.**



## 16 3/4" x 8mm Dia. Polished Axle

Polished stainless steel axle is 8mm in Dia. and about 16 3/4" Long. It has a flat 4mm x 8mm section about 5.4mm long on each end to mount a wheel or gear. Very strong- Can't be bent my normal means and precision made. Great axle for larger robots.

**G15352 \$5.95 ea.**

## Bronze Bushing For 8mm Axle

Heavy duty bronze bushing features 2 holes on 1.5" centers to allow you to bolt it to a frame. The bushing is .79"H x 1.94"L. These are very strong and will hold and allow our **G15352 8mm Axle** (above) to rotate freely. Brand new- Sold in pairs only.

**G15353 \$4.00/Pair**

## Small Drive Belt & 3 Gears

Special metal .44"Dia. timing belt set screw type gear fits a 5.5mm (.22") Dia. "D" motor shaft. This gear meshes perfectly with the timing belt and drives a plastic .69"Dia. timing belt gear which has a 28 tooth 1.17" gear molded to it. This 28 tooth gear has a 8mm (.30" bore). The 28 tooth gear then drives a 35 tooth 1.45"Dia. gear which has a 8mm (.30"Dia. bore). Includes a 9"L (2.5"Dia.) drive belt.

**G15324 \$5.00**

## Large Nylon Gear with Pulley

Large white nylon gear has 48 teeth and is 1.96" in Dia. It has a 1.16"Dia. pulley for a 2" wide pulley belt and a 2 set screw type metal collar to mount onto 10mm shafts. The assembly appears to be new, but the white nylon has turned yellow in some areas. Great for large robotic drivers.

**G15345 \$2.99 ea.**

## Timing Belt Pulley & Bearing Mount

Large 1.34" timing belt pulley is mounted to a 8mm (2")L shaft. The shaft slips into a special bearing/mount. The base of the mount is 2.25"L x 1.1"Wide and the bearing is 1"Tall. The base has mounting holes on 1.7" centers. The end of the shaft has a slot groove on it to use a keeper (not included). Great item for use in larger robot drives.

**G15354 \$5.00 ea.**

## Nylon Pulley

Nylon pulley is .44"L and has .43" Dia. lip at each end. The diameter of the pulley excluding the outer lips is .27". The internal bore is .1".

**G14943 5/99¢**

## Tiny Nylon Standoff

Insulated standoff is .16"H x .13"Dia. It is white in color and has a small hole through the middle which is large enough to allow a 1/4W resistor lead, LED lead, T092 transistor lead, small diode leads, etc., to pass through. Bag of 16 pieces

**G15274 99¢**

## Giant Standoffs 6" Metal Hex Type with 10-32 Stud

These are gold colored steel 6" long hex standoffs which have a threaded hole in the base for a 10-32 bolt. The top has a 10-32 threaded stud.

**G15251 \$1.00 ea.**

## .75" Tall Aluminum Hex Standoff with 6-32 Stud

Solid aluminum standoff features a threaded 6-32 base and a .25" tall 6-32 stud on top.

**G15255 4/\$1.00**

## Chrome Plated 4-40 Stud Standoff (Pkg of 20)

Super nice quality standoff features .25" 4-40 long stud with .20" high hex standoff with 4-40 taps (so you can screw in a 4-40 screw). Great for mounting PC boards to robot chassis. Special Blowout Price! Package of 20.

**G14946 \$1.00 ea.**

## Large Solid Aluminum Hex Spacers

These hex spacers are .5"Tall x .5" hex. They have a .20" hole in the center. Very heavy duty spacers.

**G15351 4/\$1.00**

## Small Bronze Bushing

Small bronze bushing is .40"Dia. x .24"H and has a 6mm inside bore.

**G15358 4/\$1.00**

## Small Bronze Bushing

Heavy duty yet small bronze bushing is about .5"Dia. on the outside with a .63" Dia. lip. It is about .39"L and has a bore for .23"dia. shafts.

**G14941 4/99¢**

## Bronze Bushing

Heavy duty bronze bushing is .75"Long x .5" outer diameter. Inner bore is .37".

**G14945 4/99¢**

## Nylon Bushing A

Small nylon bushing is .5"Dia. x .22" bore. Length is .25"

**G14940 8/99¢**

## Nylon Bushing B

Small nylon bushing is .5"outer Dia. x .22" bore. Length is .37"

**G14942 8/99¢**

## See-Thru Silver/Grey Static-Shielding Bags

These high quality 3mil thick bags are fabricated utilizing metallized polyester film laminated to anti-static polyethylene film to provide "Faraday Cage" like static protection. These have very good seals and are tear resistant 4 layer construction. Brand new, highest quality used throughout the electronic industry. Compare our price! Sold in package of 100 only.

MFG.	Stock#	Size	Regular Price for 100	Our Price for 100
SCC	G15280	7 x 16"	\$27	\$14.95
BAYSTAT	G15281	8 x 10"	\$18	\$12.95
Richmond	G15282	10 x 12"	\$40	\$22.95
SCC	G15283	10 x 26"	\$64	\$35.95
3M	G15284	15 x 18"	\$170	\$59.95

## Super Strong Alligator Clip

This one of the strongest test clips we have ever seen. It is made by HH Smith and features a 2.5" length. The clip is uninsulated, made out of aluminum and has a screw to hold down your wire lead. The jaw on this clip is incredibly strong!

**G15319 4/\$1.00**

## Tiny But Strong Micro Clip

Tiny but strong micro clip features a coil spring and sharp jaws. These are uninsulated types and are great for making contact to tiny test points or thin gauge wire. Size only .88"L x .22"sq.

**G15298 4/\$1.00**

## Push Down Quick Connect Wire Holding Terminals

These terminals mount firmly to a PC board using nuts provided. To quickly attach wire firmly to PC board just press down on top knob insert wire into spring shut jaws.

**Red G15308 \$1.00 ea.**

**Black G15309 \$1.00 ea.**

## Heavy Duty Quick Connect Wire PC Board Terminal

Handy PC board terminal features a bottom pin that is soldered to the PC board. The top of the terminal features a top bar that is pushed down opening a slot in the terminal to insert on or more wires. When you remove the pressure from the top bar the terminal jaw grips the wire ends tightly causing them to make firm contact to the terminal and the pad on the PC board that you have soldered the terminal to.

**G15265 \$1.00 ea.**

## Heavy Duty Nylon Insulated PC Board Holder

This unique nylon standoff/PC board holder features a mounting hole base and a unique locking tip on top. To use simply mount the nylon standoff using a 6-32 screw. Now drill holes in your PC board and push the board on the standoff to lock it in. Standoff is .63"Tall (excluding locking tip). Brand new.

**G15295 20/\$1.00**

## 4" x 6" heavy Duty Static Shield Bag

High quality grey color static shield bag features peel and stick top flap. These are top of the line types that won't break or tear and feature a permanent type of adhesive so the contents stay inside until you cut it open to access your parts. Full factory bag containing 100 4"x 6" x 4mil thick static shield bags.

**G15222 \$4.99 ea.**



### Giant 16" x 18" SCC 2000 DRI-Shield Metallized Moisture Barrier Static Shielding Bag

This bag not only protects electronic assemblies from ESD, and static fields but also tribocharging. These are one of the best metallized moisture barrier bags made. To use just insert you electronic part or assembly and heat seal. Can also be used with vacuum packaging. Brand new sold in package of 10 bags only. Compare our price! Regular price \$9 for 10 bags!

**G15286 \$6.95**

### Desco 6" x 8" STATSHIELD® Static-Shielding Bag Metal-In Construction

Metallized polyester film bag features "Faraday Cage" like static protection. These have very good seals, are tear resistant, 4 layer construction. Brand new, highest quality used throughout the electronic industry. Compare our price! Sold in package of 100 only. Regular price \$11.

**G15285 \$5.95**

### Small Brush For a Cleaning Robot

We use this on small robots to brush dust and small debris as the robot moves along a floor. Very nicely made has 2 rows of fine bristles and 2 mounting holes that can accommodate 4-40 screws on 1.45" centers. Size about 2.12"L x .75" Tall x .26" Thick. Black plastic frame. Brand new.

**G15359 \$1.49 ea.**

### Very Unusual Large Magnetic Roller

Magnetic roller is about 1"Dia. x 10 7/8" Long. Each end of the roller has a .40"(10mm) Dia. shaft which has a smaller 6mm "D" shaft inside this shaft. The magnetic surface is attached to this because if you place a paper clip, screw, etc. on the outer shaft and rotate the inner shaft the object will move around the outer shaft surface. The inner shaft spins freely so it must have internal bearings. Overall length of the entire assembly is 13 1/2". These are used but in good condition.

**G15346 \$7.95 ea.**

### Nylon Circuit Board Standoff Mount Assortment

Handy assortment of mounts made to mount circuit boards to metal chassis. Some of these have fast mount heads on each end others have a threaded female hole on one end. Several different sizes, diameters and colors. Bag of 14 pieces.

**G15266 99¢**

### Test Clip Insulator Boot Assortment

Assortment of 5 different rubber insulator boots for alligator type clips. These range from very small (about an inch) up to 3 3/4"L or larger. No clips included- Just the boot. Several different colors in each package.

**G15244 \$1.00**

### Terminal Assortment

This assortment contains ten different miniature high quality terminals. Any one of these terminals would cost as much as the entire assortment!

**G14939 99¢ ea.**

### Grabber Clip Assortment

Handy items to have around- Just solder your wire leads to these and you have a very good test setup. You get 4 different grabber clips from small to large. Each has a "hook" that extends when the insulated plastic handle is squeezed. These are brand new high quality types. Various colors.

**G15247 \$5.00**

### Super Power Air Pump

Powerful air pump can operate between 12VAC or DC up to 50VAC or DC. Of course it puts out much more air at 48V than at 12V. Overall size of pump assembly is about 5 1/2" Wide x 3 1/2" Tall. These have two 5" x 0.5" Dia. clear hoses. Some of the hoses may have a few spots or scratches on them as these were removed from like new equipment. Hurry, at this price these will move fast.

**G14852 \$1.99 ea.**

### Powerful Submersible Pump

Made by Sealand, this small 120VAC pump is great for making fountains or landscaping streams. It pumps at a rate of 180 gallons/hour. It has 1/2" output fitting and can pump up to 3 ft. high. These have been removed from new equipment and have only 13" long flexible insulated leads for hookup (so water depth can not be greater than 1 ft. deep). Blowout price on this extremely powerful and reliable pump!

**G14848 \$3.99 ea.**

### Miniature Open Frame Motor

Tiny open frame motor operates 1.5VDC to 9VDC. Size only 7/8" L x 11/16" W x 3/8" Thick. Shaft is .05" Dia. by .15" Long. Has solder eyelets for power hookup.

**G14955 \$1.00 ea.**

### Small Cassette DC Motor With Pulley

Small DC motor made for a cassette recorder will operate from 3VDC up to 12VDC. Very nice quality efficient design. Size of body excluding shaft is .87"L x 1.2"Dia. Has .40"Dia. black pulley for rubber band attached to shaft.

**G15315 \$1.89 ea.**

### Compact Buehler Gearhead Motor

Powerful yet compact gearhead motor by Buehler features high torque. Can operate from 6VDC up to 30VDC. At 12VDC the RPM is 35 and at 24VDC it is 75RPM. Length of motor and gearbox is 2 3/8". Motor Dia. is 1 1/4". Gearbox Dia. is 1 3/8". Shaft is 5mm (.20") Dia. x 3/4" Long "D" type. Has 3 tapped holes on face for mounting and flexible wire leads terminating in a connector. This is a great motor for powering robots! Brand new in box! Buehler part# 1.61.046.115.00.

**G15122 \$14.95 ea.**

### Cassette Motor With Regulator Board

Small 1.15"Dia. x .96"L cassette motor features a .16"L x .078"Dia. shaft and can operate from 3V up to 18VDC. Comes complete with a 3 transistor regulator circuit board with trimmer resistor to provide constant speed. The board can be simply removed if desired.

**G14956 \$1.99 ea.**

### Japan Servo Massive 120VAC Motor with 3 Different Output Shafts Extremely High Torque

High quality extremely high torque fan cooled Japan Servo Co. motor weighs about 6 1/2 lbs and has 3 shafts: Shaft 1 rotates at 410rpm, Shaft 2 at 195rpm and Shaft 3 at 180rpm. Each shaft is .24"Dia. x at least .45"L. Two of them are "D" type shafts. Features 14µf cap on motor and an overall size of motor about 5.5"L x 3.4"Dia. Size of gearhead face about 6.5" diagonal x 5" x 4.2" Has ground lead and 2 AC input leads. Brand new.

**G15366 \$14.95 ea.**

### Small N.O. Pushbutton Switch

Nice quality pushbutton switch for PC board mounting. This switch is only .24"sq. x .14"High (excluding white activation button). Features SPST Normally open contacts with positive clicking action and momentary operation (contacts close only as long as button is held down). Has 2 leads and is on tape and reel.

**G15238 5/\$1.00**

### Carling Small Snap-In Rocker Switch

Small snap-in rocker switch panel mounts in a .8" x .5" rectangular hole. Contacts are DPST rated 8Amp @ 125VAC. Has black body and rocker lever with red lettering.

**G15213 4/\$1.00**

### Miniature PC Right Angle Mount Slide Switch

Miniature SPDT slide switch for right angle PC board mount. Features positive click action and small black slide handle. Overall size .45"L x .20"sq. (excluding handle). Has 3 PC pins with .1" spacing between pins.

**G15215 \$5/1.00**

### Tiny Plunger Switch

Small PCB mounting plunger switch is great for "setting options" on a PC board. Consists of a white "pull up" plunger. In the up position the contacts are open- When you push the plunger down they close. Has 2 PC pins on .1" spacing. Size of switch only .24"H x .20"W x .1" Thick (excluding white plunger).

**G15214 10/\$1.00**

### Airpax Panel Mount Breaker

Rated 6Amp 250VAC this breaker panel mounts using nut provided. Features pushbutton reset and 2 spade/solder lugs for connection.

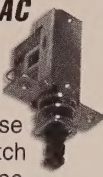
**G15200 \$1.00 ea.**



## Panel Mounting Push-On / Push-Off Switch Heavy Duty 15Amp 125VAC

This push-on/push-off switch is simple to mount- simply drill two 1/8" Dia. holes on .8" centers plus drill a .38" hole between them in the center. Now you can use two sheet metal screws to hold the switch to the panel. Features black push/push activator and SPST contacts rated 15Amp @ 125VAC or 10Amp @ 250VAC.

**G14861 99¢ ea.**



## Snap Action Lever Switch and Plate

Small 1.13" x .63" lever switch mounted to a 1.96" L x 1.04" adjustable metal plate. Switch has SPDT contacts rated 250VAC @ .1Amp. Lever on switch is 1.5" Long.

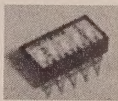
**G15189 \$1.00 ea.**



## 5 Position Miniature Dip Switch

Low profile compact Dip switch by CTS, features black and white body with 5 recessed slide actuators. Has clear protective tape on top.

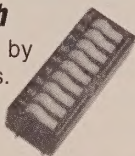
**G15360 3/99¢**



## Grayhill 9 Position Dip Switch

Top quality 9 position dip switch by Grayhill features 9 white rocker levers. Plugs into a standard 18 pin IC socket. Has peel off protective plastic tape on top.

**G15195 \$1.00 ea.**



## Stereo FM Auto Scan Mini Radio & Flashlight

Small lightweight stereo auto scan radio for FM stations features belt clip, incandescent flashlight and stereo headphones. Great for jogging and other fitness applications. Complete with two "AAA" batteries. Color of radio varies. Size of radio about 2.9" x 2.3" x .6". Brand New in retail packaging.

**G14917 \$2.49 ea.**



## IBM Wireless Full Size IR Keyboard

Very nice quality black color wireless IR keyboard by IBM part# 19K1800. These operate on 4 "AA" batteries (not included) and have a built in stick type joystick. They are brand new, however we do not have the IR receiver for these or any documentation. These are labeled with part# and the words "I-Point™" on bottom of keyboard.

**G15326 \$9.95 ea.**



## Print-On Magnetic Paper

This exciting new product allows you to create full color photo refrigerator magnets, notices, promotions, etc. with almost any inkjet printer. Let your imagination run wild as you perk up memos, create custom logo magnets, party notices, etc. After printing, simply cut with scissors. White matte finish sheet is about 8 1/4" x 11 3/4". This amazing product is for use with Inkjet printers only- Damage may occur if used in copy machines or laser printers.

**G15361 \$12.00 / package of 3 sheets**



## Motorola Wireless Instant Messenger

IMFree™ Wireless Instant Messenger is a lightweight portable device by Motorola that allows you to free up the family computer while allowing your kids to enjoy the nonstop fun of wireless instant messaging.

The user of this small hand held (4.5" x 4.8" x 1.3") portable device can roam anywhere up to 150 feet from an internet connected PC base station. Starter package includes adapter, rechargeable wireless messenger, base station with USB cable, CD rom software, and instruction booklet. Works with any AOL Instant Messenger account (you don't even have to be an AOL customer as this is free). Brand new in retail blister package. Compatible with Windows 98SE/ME/2000/XP. Regular price \$99.99.

**G14849 \$49.99 ea.**



## Companion Motorola Wireless Instant Messenger

Same as unit above but without USB cable, software and booklet. (Up to 7 IMFree™ units can be registered to a base station at once).

**G14850 \$23.99 ea.**

## Night Popper Learn to Solder Kit

Here's our newest and strangest robot. The Night Popper waits until it gets dark and then it starts its random exploring. While it explores it sets off a brilliant almost firework looking display from its 3 white lamps and emits a crackling popping sound from its on board piezo speaker. Features 2 small DC motors, 2 photodarlington transistors, a relay/CDS cell circuit and 4 drive transistors. The special bonus with this robot is that you get 2 snap off PC boards with 21 components that you solder in before building the robot. By doing this, you can gain ample soldering experience before building the Night Popper. Great learning tool and if you already know how to solder, just snap off the boards and build the Night Popper only. Robot itself is about 3 1/8" square. With the learn to solder boards attached the PC board is 4" square. Requires 2 AA batteries and 1 9V battery (not included). With all parts and instructions. Build this and you will amaze, entertain and mystify your cats, dogs and friends! Skill Level 1. Go to <http://www.goldmine-elec.com/video.htm> for a color video of this kit in action!

**G13696 \$17.95 ea.**



## Powerful 16X60 Wide Angle Binoculars

These are best for times when you need to view a large area close up! They feature ruby coated precision true wide angle lens and black body. Field of view is 367ft/1000yds. These larger size binoculars are the most powerful we have. Great for concerts, plays, sporting events, outdoor use, etc. Brand new with carrying case, neck strap, and in a retail box.

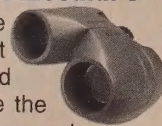
**G15171 \$49.95 ea.**



## Powerful 10X25 High Quality Binoculars

This is a tremendous value on these high quality 10 x 25 binoculars! Not only do they have special ruby coated precision lenses but they also have the optical BAK 4 Prism. Attractive and compact, they are great for concerts, plays, sporting events, birdwatching, etc. Brand new with carrying case, neck strap, lens cloth and in a retail box. Field of View: 98ft/1000yds. Objective: 25MM. Color: Black and silver. Compare at up to \$39.95!

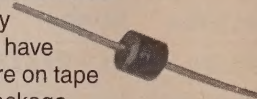
**G15170 \$19.95 ea.**



## 50V 6Amp Rectifier 6A05G

Powerful 6Amp rectifier by Diodes Incorporated. These have full length axial leads and are on tape and reel. Standard P600 package.

**G15206 \$5/1.00**



## 2N6233 NPN 50W Power Transistor

Metal TO66 NPN power transistor features 50Watt rating and V<sub>CEO</sub>=225V, I<sub>C</sub>=5Amp. Prime full length leads.

**G15328 \$1.99 ea.**



## High Voltage 2N6545 Metal Case TO3 NPN Power Transistor

This 2N6545 TO3 metal case power transistor is rated V<sub>CEO</sub>=400V, I<sub>C</sub>=8Amp and power = 125Watts. Prime Motorola parts with full length leads.

**G15330 \$3.50 ea.**



## RFP50N06 60V 50Amp N-Channel Mosfet

Plastic power mosfet in the TO-220AB package. The RFP50N06 mosfet is rated V<sub>DS</sub>=60V, I<sub>D</sub>=50Amp and power dissipation is 131Watts. Full length leads.

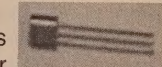
**G15335 \$1.00 ea.**



## ZVNL110A N-Channel Mosfet

Small plastic case (E-line) mosfet is rated BV<sub>DSS</sub>=100V, I<sub>D</sub>= .32A and power =.7W. Full length leads.

**G15337 5/\$1.00**



## LM3045 Transistor Array IC

Consists of 5 general purpose NPN transistors in a 14 pin Dip package. Two of the transistors are internally connected to form a differentially connected pair. Frequency range DC to 120mHz.

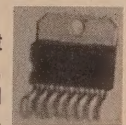
**G15355 \$1.00 ea.**



## L298 Dual Full-Bridge Driver

The L298 is a high voltage, high current dual full-bridge driver for stepper motors, inductive loads such as solenoids and relays. It is in the 15 lead multiwatt vertical package. Supply voltage up to 46V and total DC current up to 4Amp.

**G15367 \$3.98 ea.**



## LM6181 100 mA, 100mHz Current Feedback Amplifier IC

Great for use in video amplifiers, coax cable driver, flash ADC buffer, high frequency filter, scanner and imaging systems. This 8 pin mini Dip IC can directly drive up to 100pf capacitive loads. without oscillating.

**G15365 99¢ ea.**

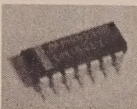




## LM1896N 2Watt Audio Amplifier

National 14 pin dip IC delivers 2Watts bridged monaural output into a 8Ω load. Features low noise and contains a dual set of amplifiers so it can deliver 1Watt per channel in stereo mode. Operates from 3V up to 10VDC. See full specs on internet.

**G15341 \$1.00 ea.**



## 33μF 300V Super Compact Capacitor

This is one of the smallest radial capacitors for this high of voltage we have ever seen. The capacitor works great for making powerful miniature xenon strobes. Size of capacitor is only .72"Dia. x .59" tall. The leads have been bent over for SMD mounting, however, its a simple matter to bend them straight and they are .3"L (great for thru-hole mounting). Brand new.

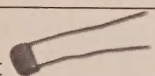
**G14574 2/\$1.00**



## .22μF 50V Mono Capacitor

Long lead mono cap features compact size only .27"W x .22"H x .12"Thick. Great for IC bypass, decoupling, etc. Rated .22μF 50VDC.

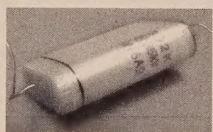
**G15259 5/\$1.00**



## .003μF 35,000 Volt Capacitor

Super High Voltage .003uf capacitor rated 35KV (35,000 Volts)! These are perfect for high power lasers, radiation detection units, x-ray, tesla coils, etc. These are prime film capacitors with long axial leads. Brand new-hurry we sell out of these very fast every time we offer them! .003 uF 35KV. Size: 1 13/16"L x 1 1/4"W x 0.5"H with long wire leads. Brand new, prime. Manufactured by Matsushita (Panasonic).

**G14878 \$2.49 ea.**



## Super Power Strobe Photoflash Capacitor 100μf 330V

Compact photoflash capacitor is only 1.54"L x .45"Dia. Has long radial leads.

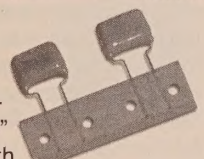
**G14806 99¢ ea.**



## .27μfd 250V Compact Film Capacitor

Compact blue epoxy case film capacitor is only .67"L x .57H x .24" Thick. This is on tape and reel with leads formed to mount on .3" centers.

**G15198 2/\$1.00**



## Compact 470nf 400V Film Capacitor

Compact film capacitor is only .32"Thick x .97"W x .72" Tall. Has radial PC pins on .9" centers. Rated 470nf (.47μf) @ 400V.

**G15357 5/\$1.00**



## 1000μf 200V Snap In Capacitor

Compact snap in capacitor by Nichicon is rated 1000f 200VDC @ 85°. Size only 1.64" Tall x 1.20"Dia. These are new but may have slight scratches on the vinyl wrap as they were shipped to us in bulk.

**G15369 99¢ ea.**



## 150μf 400V Snap In Capacitor

Snap in capacitor is rated 150μf @ 400VDC. Temperature rating 105°C. Size .88"Dia. x 2" Tall. Leads are on .35" centers.

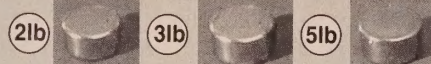
**G15373 \$1.29 ea.**



## New Rare Earth Supermagnet Blowout!

These magnets are many times more powerful than any regular magnets of the same size. Even the tiniest one can hold multiple papers to a refrigerator. These are new but may be missing the chrome plating covering (does not effect the performance). We list the manufacture pickup rating and size for each magnet.

Rating	Dimensions	Stock#	Price
2lb	.24"Dia x .16"tall	G14912	\$0.99
3lb	.39"Dia x .20"tall	G14913	\$1.29
5lb	.47"Dia x .24"tall	G14914	\$1.49

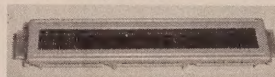


## 1 x 24 Character LCD Display Module

### WDC2401P-16NNA

Compact display module by Wintek features build in driver IC. Has 14 pin male header with pins on .05" spacing. Size about 4 1/4" x 3/4". Brand new- Nice quality. See complete specs and hookup info on internet.

**G15318 \$1.99 ea.**



## Wintek WM-G3224Y B/W 320 x 240 Dots

### Standard Graphic Module with Touch Panel & Backlight

This 5.7" x 4.6" LCD graphic display module made by Wintek features a touch panel and a CCFL backlight. Uses the NT7761 driver, a 3.3V supply and requires an external power inverter/driver for the CCFL backlight. Has a 118.2mm x 89.4mm viewing area- FSTN LCM Mode. These are very high quality display modules that are brand new! Sorry, we do not have the spec sheet but more info is available on the internet.

**G15273 \$9.95 ea.**



## WM-G2412D Large Graphic Display Module with CCFL Backlight

Made by Wintek this large 3.67" x 6.59" graphic display module has 128 x 240 dots. Has built in T6963C controller and various other ICs for driving the display. Backlight tube is a 3.3"L white tube which requires an external high voltage to drive. Sorry, no other specs available. Brand new in manufacturer bag.

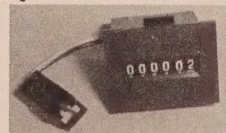
**G15264 \$5.95 ea.**



## Durant® 6 Digit 24VDC Impulse Counter

Miniature panel mount 6 digit counter increments by 1 each time 24VDC is applied. These were made by Durant® for Xerox. Size about 1.59"Deep with a faceplate of .87" x 1.13". Snaps into a 1" x .8" hole in a panel. New- Black in color with white digits.

**G15343 \$2.49 ea.**



## Laser Optic IR Lens

We were told that these were made for an IR laser system rangefinder for the military. We don't have any data or info except that we see a small glass lens on one end of a metal 0.32"Dia. holder with a 1/2"Dia. flange. At the other end is a 0.15" opening and what looks like an opaque glass lens inside. (We were able to pass IR energy through it.) Overall length of optic piece is 0.59". Metal body is black in color.

**G14847 \$1.99 ea.**



## Tank Optics Metal Holder With Glass Lens

We were told this item was from a laser system in a Army tank. Consists of a threaded .46" metal bushing with a .62" top lip. The overall length is about .50". Has what appears to be a concave glass lens with a filter coating plus we think an outer glass cover. These appear new, however we don't know.

**G14845 \$1.99 ea.**



## Merkle-Korff Precision Gear Head Motor

This small precision made gearhead motor is rated for 24VDC, however it works fine at 6VDC. Features overall body size of about 1.35"L x 0.19" dia and is threaded for a screw at the end plus it has a 0.5" long flattened section. This motor features high torque, low current draw, and is great for making a powerful robot. With flexible color coded leads and molex connector.

**G14225 \$24.95 ea.**



## Large 8mm Liteon Green LED

Bright green LED features an 8mm red diffused lens. Liteon part# LTL-327G. Full length leads.

**G15363 3/99¢**



## Large 8mm Liteon Red LED

Bright red LED features an 8mm red diffused lens. Liteon part# LTL-327HR. Full length leads.

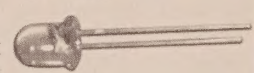
**G15364 3/99¢**



## 8MM Super Power U.V. LED

Clear lens UV LED 8mm is our largest most powerful ultraviolet LED. These are brand new made by Handy` Get part# 8N3CUV. These are great for lighting up invisible UV inks, backlight posters, scorpions, some minerals, checking for counterfeit currency, etc. Note: As with all UV LEDs do not look directly into the device during operation. Exposure to UV radiation can be harmful to your health even for a brief period. Do no permit children or untrained personnel to operate the device. Brand new- Full length leads.

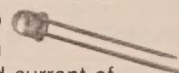
**G15221 \$1.99 ea.**



## OP298C GaAlAs Plastic Infrared LED

Made by TRW/Optek this LED has a narrow irradiance pattern of 25° and a continuous forward current of 100mA. Features a see thru turquoise blue 4.5mm lens. Output wavelength about 880nm.

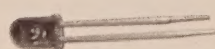
**G15256 5/\$1.00**



## Dark Grey IR LED

Long lead infared LED features a dark grey see-thru 5mm lens. Produces a good amount of IR energy when connected to 2.8VDC. Brand new- Prime.

**G15271 5/\$1.00**





## Blinking 5mm Diffused Green LED

Bright green LED blinks when 3VDC to 5 VDC is applied. To use on 9VDC just connect a 100Ω resistor in series with one of the leads. Full length leads.  
**G15257 \$1.00 ea.**

## Kingbright L1034GD-01 Factory Bag of 1000 Small Green LEDs

This LED has a unique shape with a tiny green 2mm see through green rod on top. This LED lights up bright green at 2.8V. These have .25" Long leads that have been formed for PC board mounting. Full factory bag of 1000 Kingbright L1034GD-01 LEDs.  
**G15249 \$15.00**

## Bright Red Axial Micro LED

Axial lead micro LED lights up bright red. Features .12"L x .09" diffused red rectangular lens and .55" Long axial leads. Great for use where size is a premium but you don't want the hassle of using an SMD LED.  
**G15212 8/\$1.00**

## Brilliant Green SMD LED by HP

Type HSMG-T400 green SMD LED features a tiny 3.5mm x 2.5mm SMD white case with clear lens. These light up brilliant green when 2.5V is applied. On tape and reel.  
**G15293 10/99¢**

## Miniature Bright Glo ACLO Panel Mtg 5V Indicator Lamps

These indicator lamps mount securely in a .25"Dia. hole in your panel by means of a nut (included). They feature a precision made chrome bezel surrounding a colored plastic lens. The miniature incandescent lamp located inside lights up brightly at 5V AC or DC. These really add a professional touch to a project or piece of equipment. These are new, however the hookup terminals may be slightly tarnished (simply scrape with a knife or sandpaper to restore the solderability of them). We have several colors available.

**G14920 YELLOW 2/\$1.00 ea.**  
**G14921 GREEN 2/\$1.00 ea.**

## Panel Mount Snap-in Red Indicator

Made by Littlefuse, this "snap-in" indicator lights up a bright red when any AC or DC voltage in the range of 9 to 14 volts is applied. Mounts in a .35" hole, and has 8" long insulated leads. Requires about 30mA current. Littlefuse #970S00217.  
**G14875 99¢ ea.**

## Panel Mounting 12VDC Flashing LED With Long Hookup Leads

Bright orange/red flashing LED can be mounted in a .25" hole and has 22" long insulated flexible leads. These are commonly used in cars as a "fake" car alarm armed indicator. No need to use an external resistor just connect orange lead to (+) and black lead to (-). Do not reverse leads as damage to LED will result. Brand new easy to use.  
**G14823 99¢ ea.**

## Panel Mount Red Indicator Light

Nice quality push-in panel mount indicator with built in red LED. This has a dropping resistor inside the indicator to allow operation from 12 to 24VDC.  
**G15312 99¢ ea.**

## Panel Mtg. Yellow Indicator Light

Nice quality push-in panel mount indicator with built in yellow LED. This has a dropping resistor inside the indicator to allow operation from 12 to 24VDC.  
**G15313 99¢ ea.**

## 3 In 1 Mini White LED Flashlight

This small flashlight also features a built in compass and whistle! Great for emergency or every day use. Consists of a 3 1/3" long, compact whistle with built in white LED light and built in liquid filled miniature compass and keychain. It operates on four AG13 button cell batteries (included) and is nicely made. Great stocking stuffer or holiday gift item! Brand new in retail blister package.  
**G15123 \$3.49 ea.**

## Our Best 16 White LED Flashlight!

Black metal handle flashlight operates on 3 "D" batteries (not included) and produces a brilliant white beam from 16 LEDs. Sturdy precision made with twist on/off switch in base of flashlight. Size about 10 3/8" long. All metal construction. Brand new in retail blister package.  
**G14865 \$19.95 ea.**

## Brilliant White 4 LED Flashlight

Brilliant white LED flashlight features heavy duty black body with twist "On/Off" head. Operates on 3 "AA" batteries (not included). Great for camping or outdoor use. Has handy carrying strap. Reliable design with long battery life. Size about 7 1/16"L x 1 1/8"Dia. (head). Brand new- In retail blister pack.  
**G15184 \$4.99 ea.**

## Mini Spotlight White LED Flashlight

Compact powerful white LED flashlight features an incredible single 10,000MCD white LED and built in lens to focus the beam into a single bright "white spot" (like a mini spotlight). It makes a 2ft. Dia. white circle 12ft. away. Uses three AG13 Button batteries (included). Twist on and off to operate. Approximate size: 4" Long x 1" Head Dia. (.75" Body Dia.). Features knurled grip handle and a removable keychain. New in retail blister pack.  
**G14954 \$7.49 ea.**

## NE2 LAMP With 22K Resistor

Small neon lamp glows when connected to 120VAC. Dropping resistor of 22KΩ is already attached to the bulb.  
**G15245 5/\$1.00**

## 1 1/2V Magnifying Lamp for Penlights

This small "screw in" base lamp features a small magnifying lens built into top. Operates on 1 1/2VDC (one "AA" or "AAA" battery) only. Do not exceed or it will burn out.  
**G15174 99¢ ea.**

## 6V 5Watt Quartz Halogen Bulb w/ Reflector

High quality halogen bulb type CM8-A281 MR-16 by Chicago Miniature features a chrome plated reflector and clear protective lens. Diameter of reflector is 1.94" x 1.44" Depth (excluding the two connection pins). Features bright white light spot output. Brand new- Special Price!  
**G14863 \$1.99 ea.**

## 12V 20Watt Quartz Halogen Bulb w/ Reflector

High quality halogen bulb type BAB/FG made by Chicago Miniature features a chrome plated reflector with clear lens that surrounds the halogen bulb. Diameter of reflector is 1.94" x 1.44" Depth (excluding the two connection pins). Features brilliant white spot output. Brand new- Special Price!  
**G14864 \$1.99 ea.**

## Giant Neon Lamp Light Bar

This light bar is about 16"L x .67" wide. It has 20 bright neon lamps that light up when 120VAC 60Hz is applied to the flexible 5" long input leads. We are not sure of its original use but it is new and very unique.  
**G15288 \$7.95**

## Large Single LED Backlight Panel

Large 4.67"L x 1.36" tall x .17" thick panel has one LED at the end. When 3VDC is applied it causes the whole panel to glow a bright green. These are brand new and were designed to go into LCD displays.  
**G14922 99¢ ea.**

## Large Unique Backlight Panel

Very unique 6 3/8" long x 7/8" wide x 3/8" thick white panel lights up a bright yellow/green when 4VDC is applied (use a dropping resistor for higher voltages). Diffused lens with "even glow" LEDs produces an attractive and bright glow area. Made to be put behind LCD displays but can be used for thousands of high efficiency lighting projects. Has 2 solder pad terminals for power connection.  
**G14880 \$1.99 ea.**

## Large Strobe Tube & Reflector

Large 1.75"L (excluding terminals) Xenon strobe tube is mounted in a 1" x 1.85" chrome plated plastic reflector. This tube is brand new and has 3 leads attached. Requires about 300V cathode to anode and 4kV trigger voltage. Produces blinding white flashes of light.  
**G15270 \$3.95 ea.**

## Lighted Super Compact Pocket Magnifier

Small lighted magnifier features 5X glass lens, "On/Off" switch and bright light. These are so handy- We use them here at the Goldmine to check incoming ICs for date codes, part #s, etc. Each comes with a protective carrying case and is packaged in a retail box. Uses 2 "AA" batteries (not included). Size about 2 7/8" x 2 1/4" x 9/17".  
**G15185 \$5.00 ea.**



### Intervox 12VDC Tone Alarm

This small 0.88" dia. x 0.46"H tone alarm produces a nice electronic tone when 3VDC up to 16VDC is applied to its terminals. White color.

**G14608 \$1.49 ea.**



### SMB-12L Star 12VDC Buzzer

Small electronic buzzer will operate from any voltage between 7 to 17VDC and requires about 10mA for operation. It produces a 76dB minimum output and has a medium pitched pleasant sound (not a high pitched shrill sound). Size only .56" high x .62" wide x .88" Long (excluding mounting ears). Has color flexible power leads. Does not require external drivers to produce sound (self contained).

**G15235 \$1.99 ea.**



### EFB-RD Piezoelectric Ceramic Buzzer Unit

Small black plastic case piezoelectric ceramic buzzer requires external drive circuit. Can produce 85dB sound pressure when driven by a 4kHz 15Vp-p square wave. Requires external driver. Size .95"Dia. x .31" Tall. Has 2 PC pins on .40" centers.

**G15223 99¢ ea.**



### Small Long Lead Piezo Unit

This piezo is a .5"Dia. x .23" Tall black plastic case unit that has .8" Long wire leads for PC mounting. This unit can produce loud pops or tones when connected to an appropriate driver circuit. New on tape and reel.

**G15233 99¢ ea.**



### Efficient 2" Speaker

Small 2"Dia. paper cone speaker features 16Ω impedance and is only .40" Thin (including magnet).

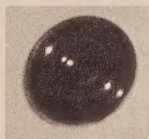
**G15277 99¢ ea.**



### Tiny Mylar Cone 8Ω Speaker

Miniature mylar cone 8Ω speaker features solder terminals and good sound quality for its tiny size. It is only .79"Dia. x .12" Thin (including magnet). Rated 200mW.

**G15356 \$1.00 ea.**



### Ultra Small Electret Microphone

Small electret microphone features red and black flexible leads terminating in a very tiny 2 pin male connector. This microphone is very sensitive and can be used with a 10K resistor from the red lead to + 9VDC (connect red lead also to the input capacitor of your amplifier of FM microphone, etc). Size only .235"Dia x .09" Thin. Brand new.

**G15220 99¢ ea.**



### Nice Quality Tie Clasp Microphone

This tie clasp microphone is very good quality. Has 15ft. flexible black cable terminating in a 2.5mm miniature plug. The tie clasp is a very nice strong chrome plated clip. Microphone has a metal dust screen on end. This is probably an electret type, however we are not sure. Brand new.

**G15371 \$1.99 ea.**



### Large LEM Current Sensor Module

Made by LEM part# LT200-S. Module senses current without connection to the current carrying conductor. Rated 200Amp, ratio 1:2000, insulation 6KVrms 60s, power supply requirement  $\pm 15V$ . Internal resistance 35ohms. No other data available. Size 3.66"L x 2"W x 2.1"H. Hole Dia. for current carrying conductor .75"Dia.

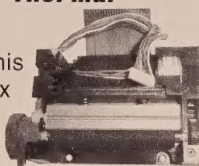
**G15202 \$9.95 ea.**



### LTP3245D-S384 Miniature Thermal Printer

Made by Seiko Instruments this small printer is only 76.3mm x 50mm x 20.0mm. It operates form 5VDC and it is designed for 58mm wide thermal paper. The number of dots per line is 384 and the number of characters is 24 per line. These complete heads look new however we don't know for sure and we do not have any data except what we have listed. Check the internet and you'll find more information. Even besides their original applications, these contain many precision mechanical parts, gears, levers, tiny motor, etc.

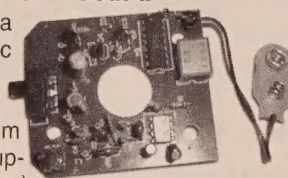
**G13643 \$8.95 ea.**



### Electronic Chime Circuit Board

This was the inside of a sophisticated electronic doorbell and it can reproduce a 2 tone doorbell sound with minimum additional parts. Just supply any small (2" or greater) speaker, a pushbutton switch and one 9V battery. We supply the hookup diagram. Size 2.5" x 2.16".

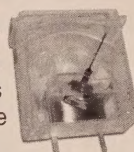
**G15268 99¢ ea.**



### O-1 Milliampere DC Edgewise Panel Meter

Small clear panel meter features a white face with a black 0-1 scale. Meter mounts in a 1.25" x .5" rectangular hole and is 1 7/16" Deep. Has solder eyelets for connection. Scale is 0-1 milliampere DC current.

**G15246 \$2.49 ea.**



### Belkin Universal VIBA-Clip For Cell Phones

Great little gadget provides a silent vibration for incoming cell phone calls. Works with all U.S. cell phones. Has an IC receiver circuit and tiny pager motor. Not only does this device alert you but it also serves as a belt holder/holster for your cell phone. Comes complete with 1 "AAA" battery. Size about 2.3" x 1.8" x .5" (excluding belt clip). Brand new in blister pack.

**G15260 \$1.99 ea.**



### Motorola 4.4VDC 1.1Amp Wall Adapter

Small lightweight wall adapter features "fold in" 120VAC prongs and green "On" indicator light. This is a regulated switching type supply. These came in bulk and may be used, so a few may have scratches on the case. The end has a special connector for cell phones but this can be cut off. Output 4.4V 1.1Amp- Regulated and filtered.

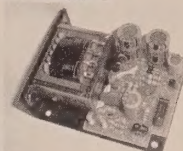
**G15279 \$3.95 ea.**



### ELPAC 5VDC 1.2Amp Power Supply

Compact regulated power supply features a 723 IC and transformer design. Size only 3 3/4" x 3" x 2" High. Brand new operates from 115VAC or 230VAC 47-440Hz.

**G15320 \$4.75 ea.**



### 3.95"Dia. 1.5Amp Solar Cell

Single crystal silicon solar cell features open circuit voltage of .5V and short circuit current of 1.4Amp or greater. Solder plated to make it easy to solder. Size about 3.95"Dia.

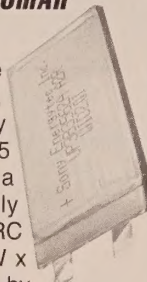
**G15302 \$5.00 ea.**



### Ultralight Powerful 3.7V 650mAh Lithium Ion Battery

Compact lithium ion battery is the solution when you need a very light, small but powerful battery. Originally made for use in Palm M500, M505 and M515, this battery features a 650mAh rating yet it weighs only 15.25 grams. Perfect for park flyer RC planes as it is only 2.4"L x 1.38"W x 0.13" Thick- very lightweight! Made by Sony, type UP383562A, these are brand new and feature foil tabs (if you are going to replace the battery in your PDA you will need to solder your old PDA battery connector to this battery). These are worth about \$49.00 each.

**G14082 \$14.95 SALE! \$5.99 ea.**



### Very Tiny 3V Lithium Cylinder Battery

Type BR435 3V lithium battery is only .16"Dia. x 1.16"L (excluding (-) pin at center). These can easily fit inside a ballpoint pen or other tiny case. This battery is rated 3VDC 50mAh.

**G15188 \$1.49 ea.**



### Pico Fuse Assortment

Great assortment of Pico fuses or equivalent brands of mini fuses. Each is marked with its value and has full length leads. These are the same size as a 1/4W resistor. Package of 5.

**G15292 99¢**



### 1K SMD Resistor Network Type EXBA10P102J Panasonic

Tiny SMD resistor array features ten SMD solder pads. The 2 diagonal pad are common and have 8 1K resistors with one lead attached to the common pads and the other end going to a unique pad (8 altogether).

**G15252 2/\$1.00**



### Large .2UH Coil with Permanent Magnet Top

Large ferrite base inductor with PC pins is 1.25" overall height x .62"Dia. It is .2 microhenry and has a large magnet glued to its top. The whole assembly is covered with heavy duty heat shrink. Has 3 pins (only 2 are connected to the coil windings). Marked FEC 15323350.

**G15350 2/99¢**







# Introducing GOLD PAK®

**Special  
Introductory Price**

**\$2.49  
ea.**

These are the lowest prices available on components. Most of these components come from high tech factories that are building computers, cell phones, amplifiers etc. We have given a code to each GoldPak to let you know what to expect. You'll be amazed at how much you can save by buying these, but you will need to take the time to sort or identify the components. This is why we are able to offer them so cheap. We don't take the time to sort or identify.

Please no returns on these GoldPaks, however you will be impressed at the incredible bargains!

CODE 1	HSE numbered 100% prime parts.
CODE 2	PC lead 100% prime parts.
CODE 3	HSE numbered and unmarked prime parts.
CODE 4	Unmarked parts.
CODE 5	Bent pins on some parts, prime parts, some soldered to parts and some damaged parts in each bag. About 70% of the items are usable.
CODE 6	PC lead, some long lead, some unmarked but mostly 100% prime. A few may have been soldered to.
CODE 7	100% Prime parts.

## 3.5MM MINIATURE STEREO JACKS

Miniature 3.5MM Stereo jacks with solder eyelets. Package of 50. CODE 5.

**Stock # GP3 \$2.49**



## Photo Transistor

Package of prime unmarked photo transistors made by Honeywell. These are not individually marked, however they came out of sealed manufacture bags that were marked 855 8604307 (probably a house number). Package of 20. CODE 4.

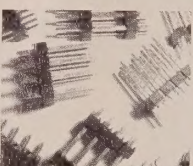
**Stock # GP12 \$2.49**



## Header Assortment

Assortment of various headers with pins on .1" spacing for PC board use. Most are dual types. Sizes vary from 2 positions up to 32 positions or more. Some are snap apart types. Package of 50. CODE 5.

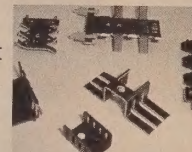
**Stock # GP6 \$2.49**



## T0220 Heat Sinks

Package of various small anodized black aluminium heat sinks. You are sure to find the right one in this assortment. Package of 8. CODE 4.

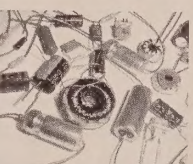
**Stock # GP14 \$2.49**



## Parts Mixture 1

Mixture of various parts. You'll find film caps, trimmer resistors, diodes, precision resistors, hardware, resistors, tantalum caps, toroids, electrolytic caps, etc. Package of 100 parts. CODE 6.

**Stock # GP7 \$2.49**



## Disc Capacitor Assortment

Assortment of high quality disk ceramic capacitors. Wide range of capacitances and voltages. Package of 50. CODE 7.

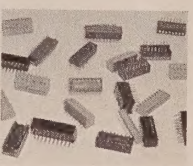
**Stock # GP15 \$2.49**



## Dip Switch Mixture

You'll find SMD types and regular types. Various mounting types and activators. Eight position and ten position types. Grayhill, Alco or other top brands. Some have protective peel off covers. Package of 25. CODE 5.

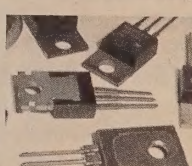
**Stock # GP8 \$2.49**



## Voltage Regulator Assortment

Assortment of high quality 100% marked and prime voltage regulators and voltage references. Some PC leads. Package of 8. CODE 7.

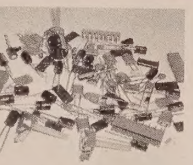
**Stock # GP16 \$2.49**



## Part Mixture 2

Mixture containing various parts such as miniature and standard radial electrolytics, varistors, high voltage mylar caps, PC mount pots, crystals, PC board connectors etc. Package of 100 parts. CODE 6.

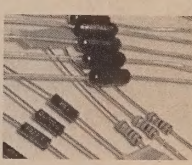
**Stock # GP9 \$2.49**



## Precision Resistor Assortment

Assortment of high quality marked precision resistors. Package of 50. CODE 7.

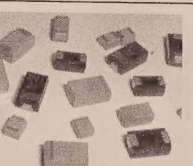
**Stock # GP17 \$2.49**



## SMD Tantalum Assortment

Tremendous value on these high quality marked Tantalum capacitors. Prime chip capacitors with values up to 47µf. Package of 20. CODE 7.

**Stock # GP10 \$2.49**



## Package of Diodes

Prime diodes of all types. You'll find small signal, zener, 1 amp. rectifiers, transient suppressers, etc. Package of 50. CODE 6.

**Stock # GP18 \$2.49**



## Fuse Assortment

Contains all types of high quality fuses. Mostly glass types, but some may be ceramic. Small and standard sizes. Fast blow and slow blow types. Package of 25. CODE 7.

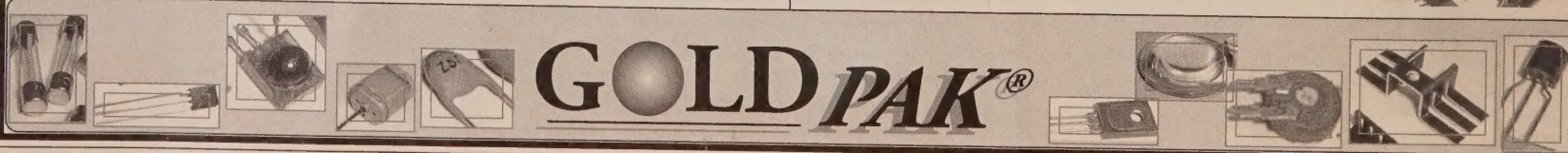
**Stock # GP11 \$2.49**



## Small Switches

Prime switches that are designed for PC mounting. Various types, contacts and ratings. Package of 12. CODE 4.

**Stock # GP19 \$2.49**





**Mylar Capacitor Assortment**

Assortment of mylar film caps. Various voltages and values. Package of 30. CODE 7.

**Stock # GP20 \$2.49**

**Metal Hardware Assortment**

Another very useful assortment, this one contains various, screws, nuts, fasteners, standoffs, etc. Package of 100. CODE 4.

**Stock # GP32 \$2.49**

**Robot Motors**

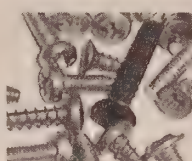
Various small motors for making robots or other moving type projects. Package of 3. CODE 4.

**Stock # GP21 \$2.49**

**Bag of Screws**

Bag of various small screws. Many are hard to find metric types. All 100% perfect. Package of 100. CODE 4.

**Stock # GP33 \$2.49**

**Glass and Plastic Lenses**

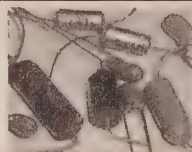
Various glass and plastic lenses from an optical company. Package of 6. CODE 4. May have slight edge chips.

**Stock # GP22 \$2.49**

**Tantalum Cap Assortment**

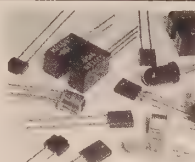
Assortment containing all types of small axial and dip tantalums, all prime and marked, mostly PC leads. Package of 20. CODE 7.

**Stock # GP34 \$2.49**

**OPTO Assortment**

Various opto parts. You'll find interupters, IR LEDs, IR sensors, IR emitters, IR detectors, etc. Package of 20. CODE 6.

**Stock # GP23 \$2.49**

**Single Turn Trimmer Assortment**

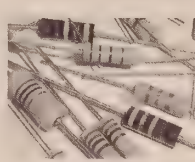
Assortment of various small size trimmer resistors. All marked and prime. Horizontal and vertical mount types. Package of 25. CODE 7.

**Stock # GP35 \$2.49**

**Power Resistors**

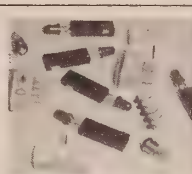
Various assorted power resistors with several different values and power ratings. Molded types. Package of 40. CODE 7.

**Stock # GP24 \$2.49**

**Unique LEDs**

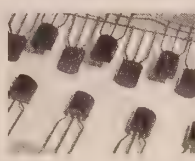
Assortment of various unique LEDs. You will find LEDs with connectors, LEDs with bayonet bases, LED strips, LED Bars, etc. At least 5 different types in each assortment. Package of 15. CODE 7.

**Stock # GP36 \$2.49**

**House # Tape & Reel Transistors**

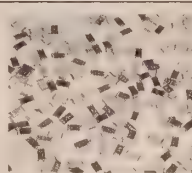
We receive hundreds of thousands of various T092 house # transistors from factories that shut down or change product lines. Package of 50 of one type. CODE 1.

**Stock # GP25 \$2.49**

**SMD Resistor and Capacitor Assortment**

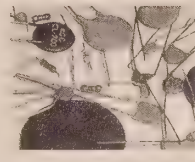
Assortment containing various prime SMD resistors and capacitors. These are 100% prime parts but because of the tiny size many manufacturers do not mark them. Package of 50. CODE 7.

**Stock # GP37 \$2.49**

**Part Mixture 3**

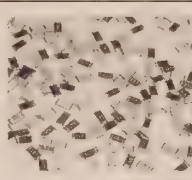
Super mixture of prime coils, caps resistors, diodes etc. Package of 50. CODE 3.

**Stock # GP26 \$2.49**

**SMD Resistor Assortment**

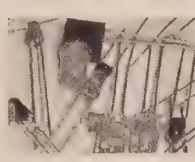
Assortment containing various SMDs. All are 100% prime in the 1206 case size. Many will be unmarked because many manufactures do not mark tiny SMD parts. Package of 75. CODE 7.

**Stock # GP38 \$2.49**

**LED Mixture 1**

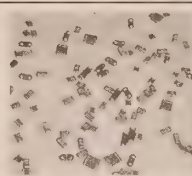
Great assortment of various color size LEDs. Some may be PC lead and some will be SMD types. All 100% prime. Package of 50. CODE 4.

**Stock # GP27 \$2.49**

**SMD Capacitor Assortment**

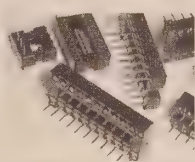
Assortment containing various SMD capacitors. All 100% prime. These are in several different case sizes. All are ceramic, and of course, the manufacturers do not mark these tiny parts. Package of 40. CODE 7.

**Stock # GP39 \$2.49**

**IC Socket Assortment**

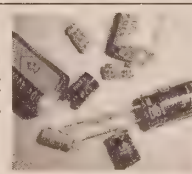
Various IC sockets from small to large, even includes some PLC types. Super assortment of prime low profile types. Package of 20 sockets. CODE 4.

**Stock # GP28 \$2.49**

**High Voltage Radial Caps**

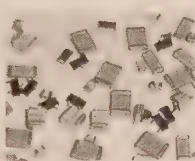
High voltage radial electrolytics for strobes, lasers, and high voltage power supplies. At least 4 different capacitors with at least 100V or greater voltage rating. Package of 8 prime capacitors—some with PC leads. CODE 7.

**Stock # GP41 \$2.49**

**SMD Mixture**

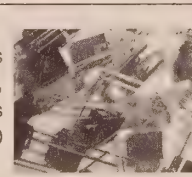
We don't take the time to sort this 100% prime material as it comes in. We just place it in 55 gal drums. Consists of various SMD resistors, capacitors, diodes, transistors, leds, etc. Package of 50. CODE 4.

**Stock # GP29 \$2.49**

**Super LED Blowout**

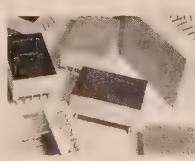
Contains jumbo, T1, right angle and others. You'll find various types and colors. We bought a million LEDs made by various manufacturers, however some bad LEDs got into the barrel so some of these LEDs won't light up. You test them and save a bundle. Package contains 80 LEDs. Code 8 (some bad parts mixed in).

**Stock # GP43 \$2.49**

**7 Segment Displays**

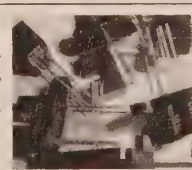
Various prime 7 segment displays. Mostly red color but some may be yellow or green. Great way to stock up. Package of 12. CODE 3.

**Stock # GP30 \$2.49**

**Opto interupters**

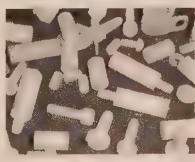
Package of high quality prime opto interupters. These are long lead with markings on them. Most are made by Honeywell. Several different types in each package. Package of 20. CODE 7.

**Stock # GP44 \$2.49**

**Plastic Hardware Assortment**

Very useful and hard to obtain, this assortment has plastic screws, nuts, clamps, tie wraps, etc. Package of 50. CODE 4.

**Stock # GP31 \$2.49**

**Small Relays Assortment**

Various small relays with coil voltages from 5VDC up to 12VDC. Various coil ratings, contact ratings and contact arrangements. All prime and made for PC board mounting. Package of 8. CODE 7.

**Stock # GP45 \$2.49**



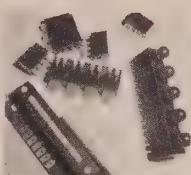




### **Bargraph/LED Bar Displays**

Great assortment of various types and colors of bargraphs, LED bars, and multiple LED displays. Each display contains at least 3 LEDs and some go up to 10 bars. LED and bar types all 100% prime. Package of 8. CODE 7.

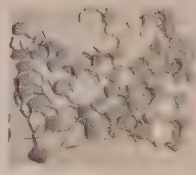
**Stock # GP47 \$2.49**



### **Small Mono Capacitors**

Several different types of mono caps for IC bypass. All are 100% prime marked parts with longer (1/2") PC leads. Epoxy case. All appear to be 104 (.1µf) types but the caps are from several different manufacturers so the cases will vary. Package of 50. CODE 7.

**Stock # GP59 \$2.49**



### **Thermal Cutoff Switches**

Heavy duty thermal cutoff switches to protect equipment. These are 100% prime marked parts with at least 2 different types. Package of 4. CODE 7.

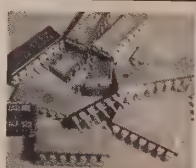
**Stock # GP48 \$2.49**



### **Linear ICs**

Various types of 100% prime standard marked linear ICs with at least 10 different types in each package. You may find high quality regulators, OP amps, comparators, amplifiers, etc., in each package. Package of 15 pieces. CODE 7.

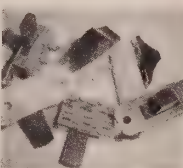
**Stock # GP61 \$2.49**



### **Slide Switch Assortment**

Several different 100% prime standard size slide switches. Some are PC mount and some are panel mount. Right angle types also. Package of 15. CODE 7.

**Stock # GP49 \$2.49**



### **Toroid Surprise**

Assortment of ferrite toroids up to 1 3/4" in Dia. All are 100% prime quality parts that are brand new. Great for winding custom filters, transformers, chokes, etc. Package of 6. CODE 4.

**Stock # GP62 \$2.49**



### **Super Coil Assortment**

Assortment of fixed coils, some with ferrite beads, some with PC leads, and some with epoxy coating and color coding. All 100% prime and at least 10 different coils in each package. Package of 50. CODE 7.

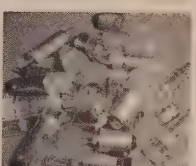
**Stock # GP50 \$2.49**



### **Small Incandescent Lamps**

Small lamps with various voltage/current requirements from 3V up to 24 V typical. Some are bayonet, some are wire leads, and some are panel mount. All are 100% prime. Package of 25. CODE 7.

**Stock # GP63 \$2.49**



### **Ferrite Cores/Bars**

Package of ferrite cores, toroids, E cores pot core pieces, ferrite cable beads etc. Package of 10 pieces from small to large with at least 5 different types in each bag. CODE 3.

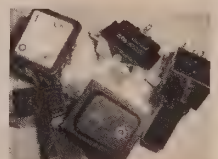
**Stock # GP51 \$2.49**



### **Super Heavy Duty Switches**

Heavy duty switches with ratings up to 15amps @ 250VAC. These large switches vary from bat handle to trigger and rocker types. Prime 100% perfect product. Package of 5. CODE 7.

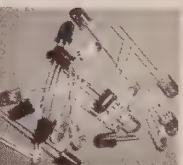
**Stock # GP64 \$2.49**



### **Powerful IR LEDs**

Several different types of prime IR LEDs produce high output invisible IR energy. Various case styles from mini to jumbo. Lenses are clear, smoke colored, blue or black. Package of 20. CODE 7.

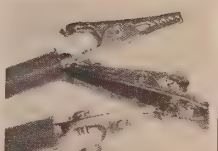
**Stock # GP54 \$2.49**



### **Heavy Duty 2" Clip with Insulator**

Package of prime spring type alligator jaw test clips with wire hold down screw and red plastic insulated handle. Great for hundreds of applications. Package of 20. CODE 7.

**Stock # GP65 \$2.49**



### **Super Bright BiPolar LEDs**

Package of 12 super bright Red/Green jumbo T1 3/4 (5mm) LEDs. These have a diffused frosted lens and 3 long leads. Prime 100% perfect and bright. Package of 12. CODE 7.

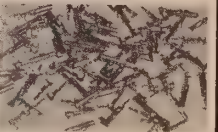
**Stock # GP55 \$2.49**



### **"Crimp On" Socket Pins**

These are various pins that would be used in Molex® and other types of connectors. There is a big variety of types on this assortment. Package of 50. CODE 7.

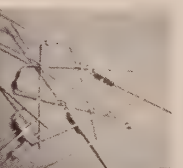
**Stock # GP70 \$2.49**



### **Mini Fuses**

Axial lead fuses the size of 1/4w resistors. These are 100% prime marked types with some leads formed (but not cut) for PC boards. At least 3 different values in each package. Package of 10. CODE 7.

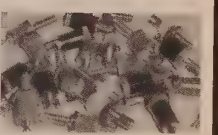
**Stock # GP56 \$2.49**



### **Super PC Board Terminal Assortment**

Great assortment of quality PC board terminals. Some have threaded holes for mounting, some have threaded bolts and some you just solder in. All are 100% Prime. Just one is worth more than the price of the assortment. Package of 25. CODE 7.

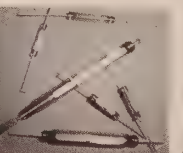
**Stock # GP71 \$2.49**



### **Reed Switches**

Several different glass reed switches that have SPST contacts that close when a magnet is brought near. Great for making all types of alarm sensors. Some may have PC leads. Package of 6. CODE 4.

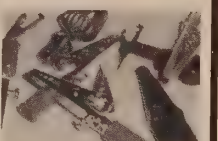
**Stock # GP57 \$2.49**



### **Test Clip Assortment**

Assortment of various test clips most with alligator jaws. These are prime types- Some with insulated boots. Package of 10. CODE 7.

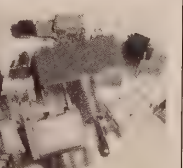
**Stock # GP72 \$2.49**



### **Mini Switch Assortment**

Various tiny switches such as pushbutton, toggles, slide etc. Various contacts and ratings. Some are panel mount and some are PC mounting. No mounting hardware supplied. 100% prime brand new and made by makers such as Alco, C&K, Grayhill, etc. Package of 8 with at least 5 different types. CODE 7.

**Stock # GP58 \$2.49**



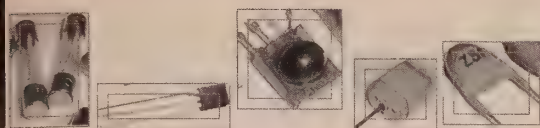
### **Plastic Strain Relief Assortment**

Assortment of various size strain reliefs for protecting wires, line cords and cables at the point they enter a metal chassis. Package of 20. CODE 7.

**Stock # GP73 \$2.49**







# GOLD PAK®

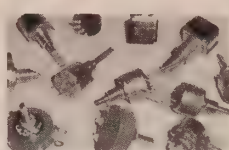


A

## Miniature Potentiometer Assortment

Great assortment of small potentiometers. At least 5 different types. Various values, mounting configurations and shaft size. All 100% Prime. Most do not have hardware. Package of 12. CODE 7.

**Stock # GP74 \$2.49**

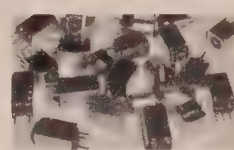


## "IF" Can Assortment

We purchased the remaining inventory of these prime "IF" cans from a distributor. Designed for use in radios. All have PC leads. At least 4 different types.

Package of 20. CODE 7.

**Stock # GP75 \$2.49**



## Various Wire Connection Lugs Assortment

Great assortment of prime wire crimp connection lugs, ground terminal rings, spade quick female connectors and miscellaneous types. Very useful to have around.

Package of 25. CODE 7.

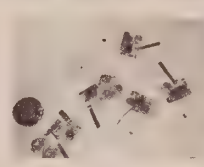
**Stock # GP76 \$2.49**



## Sound Module Assortment

Assortment containing different small greeting card modules. Each has a pull activator, built in watch batteries and small speaker/piezo. All have peel and stick mounting paper base. Package of 5. CODE 7.

**Stock # GP77 \$2.49**



## Nylon Wire/Cable Hold Down Assortment

Very useful nylon hold downs for cable or wire. Some of these you drill a hole in your PC board or metal chassis, insert the anchor and pass the wire through on of the unique channels of these hold downs. Assortment contains many different types. Package of 50. CODE 7.

**Stock # GP78 \$2.49**



## Super Nylon Clamp Assortment

These are top quality nylon clamps in various sizes. Designed to be bolted to a chassis, circuit board, wall, desk or other object in order to hold wires, cables, line cords. Several different colors, types, sizes and clamping arrangements in each package. Package of 25. CODE 7.

**Stock # GP79 \$2.49**



## AC Items

### 10FT Three Conductor Heavy Duty Outdoor Extension Cord

Outdoor extension cord is rated 13Amp @ 120VAC. Has three conductor female outlet on one end and three conductor male plug on other. Black cord.

**G14923 \$1.99 ea.**



### SL Waber 6 Outlet Multiple Outlet Strip

Great quality outlet strip by SL Waber safely converts one outlet into six. Features 15amp 120V (1875 watts continuous duty) rating. These are not surge protected, however we find hundreds of applications that this one fits the bill for! Brand new with 2 year warranty. Beige color.

**G1822 \$3.98 ea.**



### Shielded 3 Conductor Equipment/Computer Power Cables

These are found on almost all computers, test equipment, power supplies, etc. We have just purchased thousands of these brand new prime shielded black molded cables. Made by Belden for use by an OEM which closed. These all have UL/CSA approval and are perfect for new construction or replacement use.

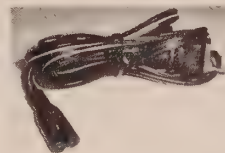


	Length	Model#	Stock#	Price
Type 1	6ft.	18-3SVT	G12797	\$1.25
Type 2	7ft.	18-3SJT	G12798	\$1.49

### Special Laptop Power Adapter Line Cord

This line cord has the special female socket that plugs into many laptop AC adapters. Its male end is non polarized allowing it to be used universally. If you have lost your line cord, you know how difficult it is to find one of these. Length is 5 1/2 ft. long. Brand new SPT-2 black color.

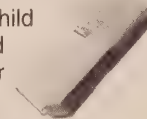
**G12899 \$1.00 ea.**



### SAF-T Gard Night Light & Outlet Cover

This gives a warm glow for only pennies a year and at the same time provides a child safe outlet that can be easily opened by an adult. Brand new in retail blister card package by GE

**G14361 99¢ ea.**



### White Line Cord with Neon Lamp

Brand new nice quality 6 ft. long white line cord with neon lamp/resistor attached to end. Has molded polarized 2 prong plug on end.

**G13664 2/\$1.00**



## Adapters/Power Supplies & Accessories

### 12VDC 1.5Amp Wall Adapter

Heavy duty wall adapter plugs into standard 120VAC and features long cord with female 5.5mm barrel plug with center (+).

**G14919 \$2.95 ea.**



### Handy Auto Accessory Wall Adapter

This wall adapter makes it easy to operate 12VDC radios, CD players, cell phone chargers, etc. Adapter plugs into standard wall outlet and has a female car cigarette lighter socket which allows you to plug your 12V device's cigarette plug directly into it. Output is rated 12VDC @ up to 1Amp. Brand new in box.

**G14918 \$4.95 ea.**



### Deluxe Coiled Car Cigar Cord

Nice coiled car cigar cord features standard 12V male cigar/cigarette plug on one end of about 6ft. long cord. Has female 5.5mm barrel plug on other end. This deluxe cord features a bright green LED which lights up when power is flowing through the cigar/cigarette plug.

**G14811 \$2.95 ea.**



### 12VDC 800ma Adapter

Heavy duty adapter for powering many types of nicad charger units. These are brand new, but the part of the label that had the brand name was cut off. Features operation from standard 120 VAC, 60Hz, 15W. Output features a female 5mm barrel plug with center positive (+). New boxed units!



Stock#	G8648
1 - 24	25 - 49
\$5.95	\$5.36

### Adapter Assortment

Handy assortment containing 4 different adapters. Each adapter plugs into a standard 120VAC wall outlet and puts out a DC voltage. Various voltages. Most have female barrel plug. An experimenter's delight.

**G13694 \$4.95**



### 12VDC 200MA Wall Adapter

Wall adapter with two prong AC line cord plugs into 120VAC 60Hz. Features long cable with 3.5mm mono plug (center +). Brand new in box. Blowout Price!

**G14801 \$1.49 ea.**



### 12VDC 300ma AC Adapter

Standard 120VAC adapter features white colored case, UL approval and female 5.5mm barrel plug with 2.5mm center+.

**G1627 \$2.95 ea. • 100 for \$249.00**



### 13.5VDC 1Amp Adapter

Heavy duty AC adapter by AT&T plugs into standard 2 prong wall output and features flexible cord with 5.5mm female barrel with center (+) for 2.1mm post.

**G14144 \$3.99 ea.**



### Heavy Duty Power Adapter 6-9VDC PEAK@ 10.8W MAX

Made by ICOT this power adapter can deliver almost 2 amps at 6VDC. Non regulated output has a female barrel plug on one end and a standard 3 cond line cord on the other. Size 4 1/2" x 2 7/8" x 2 1/8". These are used excellent condition. Has ferrite noise reduction bead on output wire.

**G8606 \$4.95 ea. • 10/\$45.00 • 100/\$395.00**





## Wall Adapter Blowout

We just received 50,000 assorted wall adapters designed for cell phone use. They may have a few scratches from arriving in bulk, but each is 100% electrically perfect. Various voltages, current ratings, connector styles. In the first assortment we looked at, there was two 5VDC, an 8.4VDC, an 8.6VDC, and a 12VDC adapter. Each plugs into a standard wall outlet and each has a long flexible cable terminating in all types of power connectors. Top brands such as Nokia, Motorola, Qualcomm, Audiovox, Sony, etc. Please, no special requests and please note each assortment is different!

**G14483 5 Assorted Adapters \$7.99**



## AC to DC Power Adapters

Handy for replacement or new construction, these feature a variety of output voltages and current. All plug into standard 120VAC and feature long, flexible cords with a female barrel power plug.

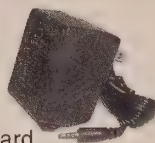
Voltage	Current	Power Plug OD	ID	Center Polarity	Stock	Price
9VDC	200ma	5.0mm	1.6mm	-	G4162	\$2.95
9VDC	300ma	5.5mm	2.0mm	+	G4163	\$3.25
9VDC	450ma	5.5mm	2.0mm	-	G4164	\$3.49
12VDC	200ma	5.5mm	2.0mm	+	G4166	\$2.95
12VDC	200ma	5.5mm	2.0mm	-	G4167	\$2.95
12VDC	500ma	5.5mm	2.0mm	+	G4168	\$3.49



## 12VDC 100mA Wall Adapter

Small wall adapter features a miniature 2.5mm stereo plug. Center is +. Has long cable. Size about 2.16" L x 1.7" W x 1.6" Deep. Plugs into standard 120VAC wall outlet. New in white box.

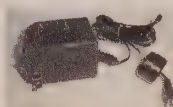
**G15216 99¢ ea.**



## 15VDC 400mA Adapter

Made for SEGA CHANNEL, this adapter plugs into any 120VAC outlet and puts out 15VDC at up to 400mA. Has 5mm miniature female barrel plug with center (+). Near the barrel plug, the flexible cord is wound around and enclosed ferrite bead for RF interference control.

**G1357 \$2.49 ea.**



## 12VDC 1.2Amp Charger Adapter

High power 12VDC adapter plugs into standard 120VAC outlet and puts out 12VDC at 1.2amps. These do not have a built in filter capacitor, so if you need a filtered supply, add a capacitor across the output. Brand new, compact only 3 1/4" x 2 1/4" x 1 15/16". With 5mm barrel plug center (-).

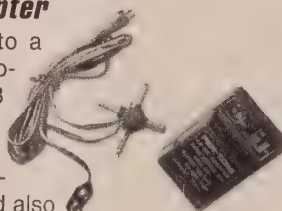
**G1566 \$3.49 ea.**



## Universal Wall Adapter

This adapter plugs into a standard outlet and provides your choice of 3 outputs: 6VDC, 7.5VDC and 9VDC all at up to 300mA. Polarity and output plug can be selected also as it has a 2.5mm plug, a 3.5mm plug, a 5.5mm female barrel with a 2.1mm center, a 5.5mm female barrel plug with a 2.5mm center and a 9V battery snap. With this universal setup you should be able to power most 6V to 9V devices. Brand new in box - Made by Fen-Tone.

**G13920 \$2.49 ea.**



## Heavy Duty 12VDC 500mA Adapter

Model A-41-500 features operation from 120VAC and flexible cord with 5mm female barrel plug with larger type (3mm) center, which is +.

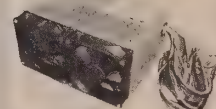
**G9596 \$2.95 ea.**



## Our Most Powerful Switching Power Supply 200W

Made by Intergraph, this power supply operates on 100 to 240VAC and features regulated outputs of +5.0VDC@30.0Amps, +3.3VDC@19.0Amps, +12.0VDC@5.0Amps, 12VDC@0.5Amps and -5.0VDC@0.5Amps. Has 2 built in fans for cooling and is compact for this powerful of a supply. Size only 7 1/2" L x 6 1/8" W x 3 1/2" H. Has a bundle of cables with connectors coming out of the metal enclosed chassis. Unfortunately, we do not have the hookup info or data so we are selling these units cheap. Brand new-prime!

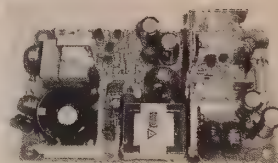
**G12865 \$21.95 ea.**



## Powerful Lambda +5VDC & +3.3VDC Regulated Power Supply

Part # PW G0050 by Lambda features +5VDC at 7amps and +3.3VDC at 10amps output. Input is 100 to 240VAC 50-60Hz. Open frame switching supply with .156" headers for output and input. Size only 6" x 3 1/2" x 1 1/4". Weighs 0.82 lbs. Brand new in manufacturer's box.

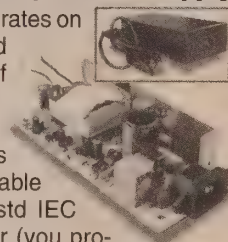
**G12705 \$12.95 ea.**



## 24.1VDC @ 2Amp Desktop Power Supply

Regulated power supply operates on 100 to 240VAC 50-60Hz and provides an output of 24.1VDC@2 Amps. These are compact in size, only 7" L x 3" W x 1 5/8" thick. Features green "on" indicator, 4.5 ft. cable with 3 pin din connector, std IEC male input power connector (you provide the business machine cord). UL listed. These are new. We removed the case on the photo to show the inside board. Made by Phihong.

**G14276 \$4.95 ea.**



## 7Ft. Power Cord for Above

**G12798 \$1.49 ea.**



## 12VDC 1000mA Power Adapter

Citipak power adapter rated 12VDC@1000mA. Plugs into standard 120VAC outlet. Features long cord with 5.5mm female barrel plug with center +. Brand new.

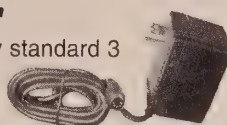
**G13740 \$5.95 ea.**



## 3 Output Wall Adapter

Wall adapter plugs into any standard 3 slot outlet and provides +5VDC at 800ma, +12VDC at 100ma -12VDC at 100ma. Has 5 pin din plug at the end of the cable which can be cut off (if you desire).

**G13927 \$2.95 ea.**



## Philips 6VDC 100mA Adapter

Small adapter was made for charging cell phones. Features female 3.5mm barrel plug with center + and long flexible cable. Brand new in box. Plugs into standard 120V wall outlet. UL listed.

**G14373 99¢ ea.**



## 12VDC 800mA AC Adapter

Heavy duty adapter features standard line cord on one end to plug into wall outlet and a 5ft. flexible lead on the other end. These are electrically perfect, but they were removed from equipment and may have a few scratches on the case.

**G8335 \$2.95 ea.**

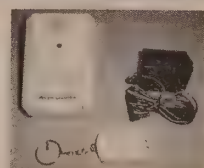


# Alarms, Sirens, Horns & Accessories

## Room Guardian™ Alarm

Features advanced microprocessor and (PIR) detection plus Infrasonic forced entry detection. The PIR sensor has a 30 foot, 360° range. The infrasonic sensor detects shock waves produced by an intruder breaking a window or forcing entry. Has a loud (100-decibel) built in alarm. Armed by a handheld (keychain) infrared remote control (approximately a 30 ft. range). There are three indicator LEDs on the top of the unit. Operates from a 9VDC AC adapter (included) or a 9-volt battery (not included). Size: 4 11/16" x 3 1/16" x 1 3/8". Brand new in retail box with complete instructions.

**G9884 \$14.95 ea.**





## PIR Human Detector

Small fully contained PIR detector senses humans up to 40 ft. away and the lens lights up a soft red to indicate that the person has been detected. Even though this unit does not set off an alarm it can be used as a deterrent to break ins as it looks the same as the PIR detectors you see in museums, restaurants, homes etc. The intruder will think that a silent alarm has been set off. New ready to go unit with wall anchor for hanging on wall. Requires one 9V battery (not included). Alkaline types will last up to several months depending on amount of activations.

**G12959 \$8.95 ea.**



## Super Sensitive Proximity Alarm

This is the best proximity alarm we have ever evaluated. It can detect your hand at one foot away. The alarm consist of an attractive compact 3 3/4" x 2 1/4" x 1" off white case with built in electronic alarm and antenna clip. The sophisticated highly sensitive circuit is activated when your hand or body comes near any ungrounded metal object which you have clipped the antenna lead to. Complete with silencer switch so that you can adjust the sensitivity of detection by a flashing LED without the alarm sounding. When you have adjusted the sensitivity control properly using the built in flashing LED simply turn on the alarm switch to provide alarm sounding. Brand new, very nice!

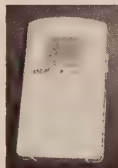
**G1757 \$12.95 ea.**



## Motion Activated PIR Sensor Alarm/Chime

This compact unit uses PIR technology to detect when people pass in front of its built in sensor. This battery operated (requires 4 "AA" batteries—not included) unit requires no wiring or special installation. User can select between chime mode and 110DB alarm siren. PIR sensor has a range of 30ft in a 110 degree arc. Perfect for home, office, etc. Brand new in retail blister pack with instructions, mounting hardware and two adhesive mylar warning stickers.

**G1385 \$9.95 ea.**



## Security Force Bookshelf type Remote Control Passive IR Intruder Alarm

One of the most convenient effective intruder alarms we have ever seen. Simply set it in a bookcase and arm it when you leave with one press of a button on a small remote control. If an intruder enters the protected area, the passive IR sensor will detect the intruder and after a 6 second delay will emit a piercing electronic alarm. The unit resets itself after 3 minutes if no more movement is detected. When you arrive home simply aim your remote at the alarm and with a press of a button on your remote, the alarm is deactivated before it can sound. Very well engineered alarm features operation from 9V battery or AC adapter (included). Features 6 position unique code programing red LED detection light, green ready light, red low battery indicator, and handy pocket size remote control (requires 9V battery). Alarm is about 6 3/4"H x 2 1/8"W x 5"D. Brand new in retail blister package, however the 9V battery that is included may be dead from storage. Made to sell in the \$100.00 range

**G8639 \$29.95 ea.**



## Elert™ Personal Alarm System

Very sensitive alarm features a built in vibration sensor and computer type circuitry. Features keyboard to allow you to set your own 3 digit disarm code, a programmable time delay before activation, an adjustable sensitivity vibration sensor, a panic activation function, LED indicators, a 10 second arming delay and several attachment accessories to allow you to install it on a door, a bike, a laptop computer, a window, etc. Once activated, the unit emits an incredibly loud obnoxious electronic siren which will sound for 30 seconds or can be deactivated by entering your 3 digit code. Operates on 3 "AAA" batteries (not included) and has a unique screw lock battery cover to prevent someone from removing the batteries to disarm the unit. Brand new with complete easy to understand instructions. The unit is black with silver lettering with an approximate size of 3 3/4" x 2" x 3/4". This is a very high quality, well made unit.

**G9908 \$6.95 ea.**



## Check out these Alarms! They are perfect for use in the home or your business!

### Window/Door Sensor Wireless Transmitter

Unique alarm transmitter made by Quorum contains a built in reed switch, and electronic intruder detection circuit with a built in RF transmitter, and an enclosed permanent magnet. Unit operates from a 9V battery (the one inside the box is dead from storage) and was meant to transmit to a receiver (Our kit C6849 will pick up the signal from this unit). Beige case is about 4 1/2"L x 1 1/2"W x 1" Dia. Brand new with mounting hardware included. Model AS-103 RR-150. High quality unit, perfect for alarm applications.

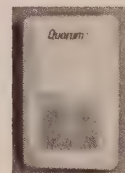
**G4568 \$6.95 ea.**



### Sensitive Passive Infrared Detector

This sensitive PIR detector contains a sophisticated nine IC circuit and a sensitive PIR sensor. The unit operates from 1 9V battery (not included) and is about 5" x 3" x 2". The unit has a built in transmitter which was to transmit the intruder detection alert at 433MHz. (Our kit C6849 picks up this signal). We do provide you with simple directions on how to connect up a relay to this PIR unit to allow you to set off sirens, lights, etc. when the unit detects an intruder. This sensitive PIR unit has a detection range of 40 feet with a cone of coverage of about 90° wide. These are professional units that are perfect for your alarm applications.

**G4567 ~~\$14.95~~ SALE! \$5.95 ea.**



### 433MHZ Glass Break Sensor/Transmitter

Self contained 4 3/4" x 3 1/4" x 1 1/4" sensor uses sophisticated IC circuitry to detect the sound of breaking glass. It processes this noise signal and then transmits a 433MHZ signal to activate your receiver (such as our C6849 433MHz Keychain Remote control System Kit to the right). Requires no wires and uses one 9V battery (not included). Beige case. Sensor comes fully assembled.

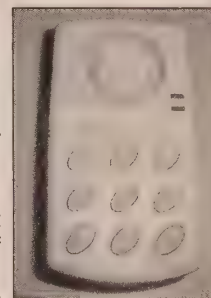
**G4572 \$15.95 ea.**



## Pool Elert™ Alarm

Features a keyboard to allow you to set your own 3 digit disarm code, a programmable time delay before activation of 3, 10 or 20 seconds, and adjustable sensitivity vibration sensor which can detect the slightest movement of the door, a panic activation mode, LED indicators, a 10 second arming delay, auto re-arm and several attachment accessories. Once activated, the alarm will sound for 30 seconds or can be deactivated by entering your 3 digit code. Operates on 3 AAA batteries (not included). Attractive blue color case unit is brand new and comes in box.

**G9912 \$7.95 ea.**



## 433MHZ Keychain Remote Control System Kit

This Remote Control System consists of a fully assembled tiny keychain remote that operates from one 12V lighter battery Type 23A (not included) and a 433MHZ Receiver Kit which operates from a 9V battery (not included). The small 3 3/8" x 2 1/4" receiver features a DPDT relay and the receiver is perfect for various applications in robotics, alarms, remote light activation, etc. Each time the button on the keychain is pushed the relay on the receiver board activates. Range is up to 50 feet away and the receiver features sensitivity control and "activation time" control so that the relay can be energized for a longer period of time (if desired). This kit also will receive the signal transmitted from the G4567 PIR Detector (to the left) and/or the G4568 Window Door Sensor and/or the G4572 Glass Break Sensor. You can use these optional sensors to build a very nice alarm system. The receiver must be assembled and comes with all parts, PC board and instructions. The system comes with one fully assembled Keychain Remote and one unassembled Receiver Kit. Skill Level 3.

**C6849 \$24.95 ea.**

Optional Type 4 plastic box for above:

**C6366 \$2.50**

Extra keychain remote:

**G1449 \$6.95**

12V Battery for remote:

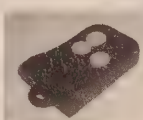
**C6860 \$1.49**

## Ultra Sleek RF Alarm Remote

This keychain type miniature alarm remote is one of the latest types made. It is brand new and operates from 1 standard 12V lighter battery (type 23,23M VR22 or EL22) not included. This sophisticated 3 button remote contains a complete RF coded transmitter with red LED "on" indicator and it was made for a car alarm. It features an elegant design, ultra thin 2 1/8"L x 1 3/8"W smooth matte finish black case.

Use these with the C6849 Kit (sold above).

**G1449 \$6.95 ea.**





## Laptop Alarm or Kiddie Finder

Made originally to let a parent know when their child has wandered away, this device would be well suited for a laptop computer alarm. Consists of the small transmitter pendant which requires 12V mini battery (not included) and a clip on receiver unit which requires a 9V battery (not included). On the receiver you can select between a 30ft. or 60ft. range by means of a switch. When the transmitter pendant goes out of range the receiver unit sounds an alarm. Very high tech circuitry. Its up to you to figure out how to mount the pendant to the laptop (epoxy or double stick foam). Great experiment item with hundreds of uses! Brand new bright yellow cases with colorful LED indicators.

**G1626 \$8.95 ea.**

## Commercial Fire Alarm/Strobe Warning Unit

This circuit board produces a deafening electronic warning sound and bright flashes of white light (about 75 per minute) when 12VDC up to 18VDC is applied. Size of board is about 3 5/8" x 2 7/8" x 2" tall. Features 2 separate power input pins to allow for operating the strobe portion of circuit or the warning sound alone if desired (however both can be operated at the same time for the ultimate in warning devices). New.

**G2210 \$8.95 ea.**

## Security Guard Lamp Control

Turns any lamp off at dawn and on at dusk. Simply plug lamp into Security Guard and then plug Security Guard into wall outlet. Made by Gemini. Size: 3 1/2" x 1 1/2". White color.

**G7940 \$4.95 ea.**

## Safety & Security Lock'N Alarm™

This small, yet very powerful alarm and lock is designed to be mounted on metal framed windows and sliding glass doors. When this unit is activated by the vibration of someone trying to open your sliding door/window, a high output 120DB alarm siren is triggered. Great for preventing unauthorized entry. For additional security, the screw locking mechanism keeps window or sliding glass door secure. Operates on 12V battery (included). Brand new in retail blister pack complete with instructions and 2 adhesive mylar warning stickers. Size is 1 5/8" W x 1 3/16" T x 1 7/8".

**G1378 \$5.95 ea.**

## Raytech Model R4042 PIR Detector

This is a professional PIR detector that was designed to mount behind a metal vent. We do not have the metal vent but we do have the electronic unit, and instruction manual. These operate from 12VAC and have one N.C. contact that opens when an intruder is detected. Has test switch and LED indicator. Some of these may have slight scratched or wrinkles on clear protective mylar film (does not effect operation).

**G15239 \$10.95 ea.**

## USP Inc. Super Sensitive PIR Detector

Model R400200-013410 features operation from 12VAC (or 12VDC). These are new but we don't have the instruction manuals. Simple to use - just connect your source of 12VAC or 12VDC to the barrier block and connect your alarm system, buzzer, LED, etc. to the alarm relay contacts. SPDT rated 130VDC @ 50mA. Size about 4"W x 3.4"H x 2.8" Deep.

**G14458 \$9.95 ea.**

## Powerful Alarm Siren Outdoor Unit

This is a 5"Dia x 6"Long black plastic alarm siren designed for 12VDC operation. This comes with a special 12VDC AC adapter to power it. The adapter has a 50ft. long cable with male 3.5mm plug which connects to a female connector on the siren. When you plug the wall adapter into 120VAC the siren emits a loud electronic alert. The speaker/siren has a label marked TELKO 10W Electronic Siren and a 8" long grey cable that has 3 internal wires. However we do not know the purpose of this cable.

**G15237 \$19.95 ea.**

## Door Wedge Alarm

Small plastic wedge alarm is inserted under any door you wish to protect. As soon as an intruder attempts to open the door from the outside, the alarm alerts you with a loud sound. Operates on one 9V battery (not included). Brand new worth much more than our price!

**G8449 \$4.95 ea.**

## Commercial Passive Infrared Sensor Model PA-6020E

Model PA-6020E is a vertical curtain protection passive infrared sensor designed to sense an intruder up to 65 ft. away. Has red LED detection alert and features SPDT contacts rated .2amp. These are attractive professional units as found in commercial buildings, museums, restaurants, etc. They are brand new in original manufacturer boxes.

**G8637 \$28.95 ea.**

## 8Ω 8 Watt Outdoor Paging Speaker

High quality gold colored metal case paging speaker is rated 8Ω and 8 watt power. Size 5 1/4" diameter x 5" long. Has long flexible wire with 3.5mm male mono plug on end. New in box. Perfect for hundreds of applications

**G1753 \$6.95 ea.**

## Bags

### Plastic Bags to Hold Small Parts

Small clear polyethylene plastic bags to package small electronic parts. Sold in bundles of 100 only.

Size	Stock#	Price
2" x 3"	G2112	\$1.00/100
3" x 4"	G2113	\$1.50/100

### Ultra Miniature Reclosable Bags

These are absolutely the smallest reclosable bags that we have ever seen! They measure only 1.5" x 1". Perfect for packaging/storing small electronic parts like SMD components or use them for other applications. Brand new package of approximately 100 bags, made by Apple Bags.

**G1280 \$1.25**

### Plastic Zipper Close Bags

We now offer high quality 2Mil thick zipper plastic bags with white block to write on. These reclosable bags feature a zipper locking top for convenient storage of small electronic parts, hardware, etc. We have the following sizes. Sold in multiples of 100 ONLY.

Size	Stock#	Price	Size	Stock#	Price
2" x 3"	G663	100/\$4.00	3" x 4"	G664	100/\$4.75
3" x 5"	G665	100/\$5.00	4" x 6"	G666	100/\$6.75

## Batteries

### Lithium Coin Battery Assortment

Small coin batteries for powering miniature robots. Some may have solder tabs and some don't. Various diameters and thickness. All are new and all have the part # marked on the battery. Remember you get five different batteries.

**G14958 \$1.99 ea.**

### SANYO CR2430 Coin Battery

Lithium 3V coin battery is about 15/16" in dia. Prime! - Brand New!

**G8551 2/\$1.00**

### Panasonic CR2477 Lithium Battery

This high capacity Lithium coin battery is rated 3V and has solder tabs. Size is about 15/16" Dia. x 9/32" thick. New.

**G1583 \$1.00 ea.**

### Rayovac BR1225 Lithium Battery

Small lithium battery with solder tabs as shown. Size about 1/2" Dia. voltage 3VDC. Prime!

**G7296 2/\$1.00**

### BR2032 Lithium Coin Battery

High quality Panasonic 3V coin battery type BR2032 features yellow vinyl sleeve and solder tabs. Approximate size: 13/16" Dia. New.

**G1582 2/\$1.00**

**G1582A Factory Box of 100/\$25.00**

### Sony CR2016 Lithium Coin Battery

One of the most popular coin batteries for memory backup, calculators, etc. Size about 20mm Dia. x 1.5mm thick.

**G1897 2/\$1.25**



## Sony Prime Lithium Coin Cells

Made for memory backup and powering hundreds of high tech devices. Highest quality full power types made by Sony. \*Has Solder Tabs

Fig.	Part#	Dia.	Stock#	Price
A	CR1220	12mm	G4591	\$1.00 ea. 10/\$6.00
B	CR1620	16mm	G4592	\$1.10 ea. 10/\$6.50
C	CR2450*	24mm	G4595	\$1.49 ea. 10/\$9.00



## SONY NH-14WM(A) Rechargeable Battery

This popular higher capacity 1400mAh nickel metal hydride battery is found in many recorders, portable stereo players, mini-disk players and other high tech electronic devices. Size is about .67"W x 2.62" tall x .23" thick. Voltage is 1.2V. Made by SONY. Worth up to \$20 each!

G14927 \$7.95 ea.

## Eveready CH12 AAA Nickel

### Rechargeable Battery

Rechargeable AAA battery by Eveready features "button" on+ end for good contact with battery holders. Standard yellow vinyl case AAA battery can be recharged over and over again.

G14718 99¢ ea.

## Varta Super Slim Rechargeable 7.2V

### 70 mA NI-MH Battery

Varta rechargeable NI-MH battery is about 1.8"L x 1.2"W x .25" Thin. Perfect for all sorts of small robots. Can be recharged over and over. Has color coded leads and small two pin female connector.

G14949 99¢ ea.

## Sanyo/CADNICA 7.2V

### 50MAH Nicad Battery

High quality rechargeable nicad features vinyl sleeve and six Cadnica 50AAA 1.2V 50mah cells. Each internal cell has tabs and a vinyl sleeve. Take apart the individual cells to make miniature solar rechargeable radios, robots, etc.

G9420 \$3.95 ea.

## Pager AAA Nicad 2 Pack

These are AAA Nicad Battery 2 packs (2.4V) made for pagers. The have flexible leads terminating in a tiny 2 slot female connector. These are used and pulled out of defective pagers. The packs themselves appear to be good and we tried several and they took a full charge. We can't test these before shipping so we are selling them "AS IS," however we think most of them will be 100% good. Rated 2.4V 250mah.

G12871 2 packs of 2 batteries/\$1.00

## Standard AA Nicad Battery

Standard size AA nicad with + button for firm contact in battery holders. These can be recharged over and over again. Brand new with white vinyl sleeve.

G14720 2/99¢

## 3.6V 50MAH Nicad 1/3 AAA 3 Pack

Made for cordless phones, this battery is great for use with miniature robots. Size only 1.2"L x 0.41"W x 0.61"H. Has white shrink wrap and color coded wires with tiny 2 pin female connector. New - Prime.

G13909 \$1.00 ea.

## Polystone Lithium-Ion Prismatic Rechargeable 340948 Battery

Rechargeable Lithium-ion battery features a nominal voltage of 3.7V and a current rating of 1200mAh. These weigh 38 grams and are 34.2mm x 8.5mm x 48mm. These feature a shutdown separator and rupture vent for safety however as with all lithium-ion batteries that have very high power and energy density you must exercise precautions when handling or testing (We include a technical guide with each purchase that details precautions and assembly info for making battery packs). These have a white vinyl covering and do not have solder tabs. Blowout Pricing!

G14948 \$1.99 ea.



## AAA Battery by GP

Extra Heavy Duty Greencell "AAA" battery by GP. These are packed with many TV/VCR/DVD remote controls at the factories. This popular battery does not contain mercury or cadmium. These are fresh factory prime batteries with a date code of 2006.

G14908 2/49¢



## 12VDC Alkaline Lighter Battery

This popular type battery is found in many keychain car alarm remote controls, electronic lighters and various compact electronic devices. Its size is about 1.1"L x .39" Dia. Type L1028/23A Brand new fresh.

G13322 \$1.00 ea.



## Cordless Phone Battery

Great for replacement use in cordless phones, power tools, electric toothbrushes, etc! This 3 cell nicad button pack is rated 3.6V@280mAh. Size is 1" Tall x 1" Dia, has blue vinyl sleeve, flexible color coded wires and small female connector. Prime brand new. Sold for up to \$9.00 each elsewhere.

G1508 \$1.49 ea. • 5/\$7.00

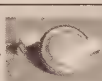


## Latest Technology Rechargeable Polyacene "Wafer Thin" Battery (PAS 920)

Made for memory backup in cell phones these represent a breakthrough in battery technology. These brand new tiny batteries use proprietary polycenic semiconductor (PAS) polymer technology. Using this technology for the electrodes in these secondary batteries have allowed a more stable, higher capacity battery, than bi-layer capacitor batteries. This Kanebo PAS920-5-VB6R-2 battery is only 9.3mm (dia.) x 2.3mm (thick). It has metal tabs for direct soldering to a circuit board. This battery can be charged and discharged over and over again. The factory QA certificate on these lists a rating of .6 Farad and an internal resistance under 20Ω. This particular battery was made for one of the largest cell phone manufacturers and their name is listed on the large factory cartons. These batteries are perfect for hundreds of applications. We charged one up and it powered a flashing LED for about an hour before needing to be recharged. Unlike ni-cads these batteries will discharge over a period of time (even if not connected to a circuit) and they are shipped uncharged. You'll be amazed at the capacity for such a tiny wafer thin cell. Rated 3VDC.

G13133 5/\$1.00

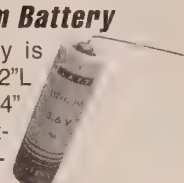
G13133A 100/\$15.00



## SAFT 3.6V 2.25 Ah Lithium Battery

This 3.6V@2250mAh battery is about the size of an AA battery 2"L x 0.55" Dia.) excluding the 1 3/4" wire lead on each end. This battery is used in many pieces of industrial equipment, aerospace, military, utility metering, alarms, memory backups, etc. It is a highly stable lithium thionyl chloride primary cell (not rechargeable). Made for applications that do not exceed 120mA maximum discharge current. This battery has a very low self discharge rate of less than 0.5% per year making it perfect for backup power applications. Temperature range - 60° to 85°C. Code printed on battery: F.00.179.B.T. These sell in the range of \$5-\$9 each.

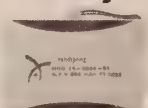
G14788 \$1.49 ea.



## Handspring PDA Replacement Battery

Type HND 14-0024-01 rated 3.7V 850mAh made by Handspring. Features tiny connector and peel and stick mounting. Size only 2" L x 1.33" W x .21" Thick. Brand new and sold elsewhere online for \$49.00. We believe that this battery is for the Treo 270 and Treo 300 series.

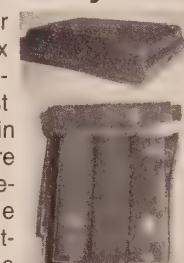
G14081 \$19.95 ea.



## Quick Charge AA 500MAH Battery Pack

These were made for cellular phones and consist of a 2 3/4" x 2 1/4" x 5/8" compact case. Inside you'll find 4 high quality fast charge AA nicads connected in series by metal tabs. These are very high quality and can be removed by simply cracking the case apart and pulling out the batteries. They'll have some double stick adhesive on them, but after that is removed, you'll have very nice fast charge nicads with vinyl sleeves and solder tabs. These are fresh nicads that can be charged over and over. Prime, in manufacturers original box. Part# B-111-LD. Each nicad costs you less than 75¢.

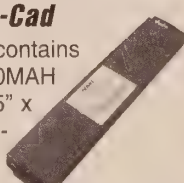
G8498 \$2.95 ea. • 10/\$20.00



## Compact 1.2V 380MAH Ni-Cad

This is a cell phone battery that contains 6 powerful yet compact 1.2V 380MAH rectangular shaped (1.8" x 0.65" x 0.22") batteries connected in series. The cell phone battery is 6 1/2"L x 1.6"W. You need to peel apart the plastic cell phone outer shell and remove the 6 internal nicads (which are attached to the shell with double stick tape). With a little effort on your part you'll have 6 compact ni-cads that are great for all types of applications. New.

G14571 99¢ ea.





## Tiny NiMH Rechargeable Battery 2/V15H

Made by Varta, this nickel metal hydride battery is only 0.89"L x 0.16" Thick. It consists of 2 tiny flat "coin" cells connected in series and then covered with a green vinyl sleeve. There is peel and stick tape on the bottom. Features 2 wire posts and the battery is rated 2V@15mA. Because of its light weight, tiny size, and the fact that it can be recharged over and over again, this battery is great for memory backup, tiny robots, flashing LED circuits, etc.. Brand new-Prime!

**G14762 \$1.00 ea.**

## Highest Quality NiMH Duracell® Cell Phone Batteries

For Motorola, Pioneer and JVC. These are prime retail blister packaged Nickel Metal Hydride Advanced Technology batteries that fit Motorola MicroTac series, Micro Digital series, Tele Tac 200, DPC-550, 560, 650, PT 500, 900PT, 950PT, Alpha Star, Dimension 4000, Piper, 88015, 88017, 88019, 88022, Pioneer PCC-700, 720, 900, 920 and also JVC TN-J7, J10. Steel grey color. Slim Duracell® DR122L6 550mah up to 100 min talk time.

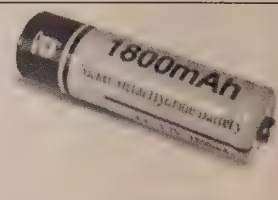
**G1463 ~~\$19.95~~ SALE! \$8.95 ea.**

## 1800 mAh AA NiMH Rechargeable Battery

These are brand new. They can be recharged over and over again. Factory fresh super power AA nickel metal hydride batteries can be fast charged in 5 hours and are great for games, RC, CD players, cameras, etc. Made by Power Hub.

**G14243**

**\$1.89 ea.**



## Battery Chargers

### Universal AA Battery Charger

Universal charger made for charging 4 AA Nicad batteries in an 8 hour time period. Simple to use, compact unit plugs into standard wall outlet and features LED "charging" indicator.

**G14738 \$4.95 ea.**



### GE/Sanyo Universal Rapid Charger with Dual Input Option for AA/AAA NiMH/Nicad

This handy charge unit does it all. Not only does it charge Nicads or NiMH AA or AAA batteries, but it also features a dual power option. You can plug it into the wall outlet at home or use the included cigarette plug to plug it into your car or truck to charge batteries when you are on the road. High quality, reliable unit made by GE/Sanyo features firm grips, LED charge indicator and compact design. Charges 2 or 4 batteries at a time. Brand new in retail package.

**G14725 \$9.95 ea.**



## Battery Holders & Snaps

### 9V Snap

Standard 9V snap with color coded leads.

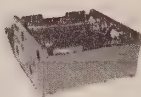
**G2210A 5/\$1.00**



### 8 Cell Penlight Battery Holder

Black plastic holder for 8 standard "AA" batteries.

**G754 \$1.00 ea.**



### "AA" Battery Holder

Small black plastic battery holder for 1 "AA" battery. Features color coded wire leads. Size 2 1/4".

**G9705 2/\$1.00**



### Keystone Metal "AA" Battery Holder

Type 182 metal battery holder by Keystone features solid reliable grip to hold 4 "AA" batteries side by side. These have no other wires connecting the cells so you may connect them separately or wire them in series or parallel. Brand new - nicely made.

**G13514 \$1.00 ea.**

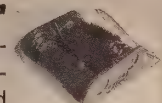


### Two "C" Size Battery Holder

Nice quality battery holder for holding 2 "C" size batteries. Features reliable springs, flexible color coded leads and black plastic base.

**G1818 2/\$1.49**

**G1818A 100/\$50.00**



## Boxes - Cases - Enclosures

### Universal Deluxe Project Case

Attractive sturdy beige case features 2 halves that screw together from the bottom. Size is 6 1/8"W x 2 1/8"H x 6 3/4"Deep. Comes with 2 clear 2 1/8" x 6 1/8" plastic lenses (for front and back). Brand new, has built in vent holes/speaker grille to accommodate a 2 1/2" speaker if desired. These make great project cases for professional strobes, amplifiers, radios, etc.. Comes with screws.

**G14057 \$4.95 ea.**



### Black Anti-Static Box

Perfect for storing static sensitive transistors, FETS, and ICs (up to 16 pins in size). These boxes also make excellent small enclosures for miniature electronic projects. Opaque black color with hinges and a snap closure. Overall size of box 1 1/8" cube. Brand new, and very nicely made.

**G1411 4/\$1.00**

**G1411A 100/\$22.00**

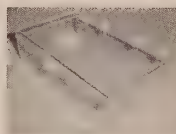


### Crystal Clear Project Box

Clear plastic project box with hinged cover is perfect for making various electronic projects or mounting finished electronic kits in.

Size: 5 1/4"L x 3 1/4" W x 1 1/2"D.

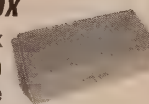
**G4460 \$2.00 ea.**



### Opaque Red Plastic Project Box

Nice quality hinged type project box makes a professional looking addition to many electronic projects. Size about 4 7/16"L x 2 1/8"W x 1 7/16"D. New.

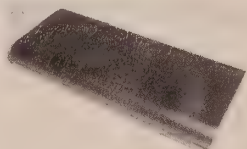
**G12803 \$1.00 ea.**



### BOPLA High Tech Project Box

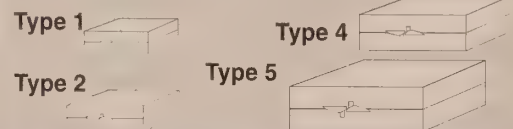
Made for a hand held airport metal detection unit, this stylish box has a high tech design. Black matte finish plastic box has rounded edges and a battery compartment with removable cover (made to accommodate a 9V battery). Overall size about 6 3/4" L x 3" W x 1" Thick. Brand new, ready for your next High Tech Project. Bopla part # B03601. Worth many times our giveaway price.

**G4522 \$6.95 ea.**



### Plastic Boxes

Clear hinged plastic boxes to make kits into finished projects.



Type	Size	Stock#	Price
1	2"x2"x1 1/8"D	C6363	\$1.00
2	3 9/16"x2 9/16"x1"D	C6364	\$1.50
3	3 9/16"x2 9/16"x2"D	C6365	\$1.95
4	5 1/8"x3 1/8"x2 7/8"D	C6366	\$2.50
5	6"x4"x2"D	C6367	\$2.75

These boxes were designed for Chaney Kits

### Large Antistatic Plastic Universal Container

Consists of a 12 1/2" x 9 1/2" x 2 3/4" black antistatic box with a pocket on top which you can insert a circuit card. The container has an inside compartment that can be accessed by lifting a latch. Inside is a 3 5/8" x 5 3/4" x 1 5/8" antistatic box with a latch and eyelet for connecting a wrist strap. This box can be removed giving you a large area to store sensitive ICs, a large circuit board or a couple of small circuit boards. These are used, excellent condition with various labels that can be peeled off. Very useful and probably worth a fortune.

**G13815 \$4.95 ea.**





### Plastic Project Box

Snap together 5" x 2.9" x 1.27" beige color opaque project box features one small 0.35" sq. hole on one end and 2 tiny holes on top. Comes with two screws to hold box together. Perfect for hundreds of professional looking projects!

**G14076 \$1.99 ea.**

### Serpac Project Case 110-I

Model 110-I black plastic case features a top lid with a smooth depression for flush membrane/label surface or printing. Size is 3.61"L x 2.27"W x 1.01"Thick. Has internal circuit board mounting bosses and has four recessed holes on bottom for screws to hold case together (screws for this are included). These are brand new and very nicely made. See the Serpac website for a PDF drawing of this case. Special Blowout Price!

**G14950 \$1.99 ea.**

## Buzzers/ Piezos

### Projects Unlimited Inc. EAI-430 Large Tone Alert

Made by Projects Unlimited Inc., this 5/8" Tall 1 9/16" Dia. (excluding mtg. ears) grey plastic case tone alert produces a constant 2800Hz 90dB electric alert tone when its flexible color coded leads are connected to 12VDC. Average current draw is only 6mA. Brand new-Heavy duty and loud. Mounting ears are on 1.95 centers.

**G15242 99¢ ea.**

### Small Piezo Speaker

Small .55" dia. x .27" high piezo speaker for alarms, alerts, timer applications. Requires external drive circuitry. Has PC pins on .30" centers.

**G13581 2/\$1.00**

### Mallory Sonalert II® Audible Signal Device

Type MSR320 by Mallory is a self contained audible signal device capable of producing a minimum sound pressure of 90db(A) @ 10cm. Will operate from 3VDC up to 20VDC and does not require any additional driver circuitry. Great for fire alarms, burglar alarms, automotive clocks, etc. Size 23mm (dia.) x 10.5mm (H). Has solder pins on 15mm centers. New.

**G13545 \$1.00 ea.**

### Our Smallest Self Contained Electronic Alert

This is a self contained (no driver circuitry needed) electronic tone alert device. Simply connect 8VDC up to 16VDC to the correct polarity and this item emits a loud 2400Hz tone. This alert is only .47" Dia. x .36" tall. Made by American Audio part# SEB122. Sound output @ 10cm is 85dB. Only requires 30mA current. Brand new and very unusual due to the tiny size but loud output.

**G14805 \$1.49 ea.**

### Murata Miniature Tone Generator

Small, self contained 0.95" Dia. x 0.38" black tone generator contains a piezo and electronic circuitry to produce an electronic tone. Operates from 1.3V up to 12VDC. Has 2 PC mounting leads on 0.57" centers. New with peel off protective label.

**G14200 \$1.00 ea.**

### Kyocera KBS-13DB Piezo Buzzer

Low current high sound pressure blue plastic case piezo buzzer can be driven by various transistor or IC circuits. Sound pressure level is 73db min. @ 4.090KHZ 10vp-p sq 30cm. Static capacitance is 10mf±30%. Size 15mm Dia. x 9mm (H). Has 2 wire posts. Requires electronic drive circuitry. Prime!

**G13474 \$1.00 ea. • 10/\$8.00 • 100/\$52.00**

## Cables & Wire

### Gold Plated Female RCA Dual Audio Cable Patch Cord

These allow the extension of speakers, video, audio output. Consists of a length of cable with 2 gold plated female RCA jacks on each end. We have 2 lengths available, each is retail packaged.

**6 ft. Long G13784 \$1.00 ea.**  
**14 ft. Long G13785 \$1.49 ea.**

### RCA 12Ft Stereo Audio Cable with Gold Plated Connectors

Type DT12A by RCA is two 12 ft. long double shielded flexible heavy duty cables with see thru jacket and a 24K gold plated studio grade male RCA connector on each end. These are balanced for optimum performance with all digital and analog devices. Brand new in sealed RCA blister package. Regular price \$19.99! Limited lifetime warranty from manufacturer!

**G14701 \$9.99**

### RCA Digital Sub-Woofer Cables

Features Super Heavy Duty flexible double shielded cable with see thru jacket, 24K gold-plated, studio grade RCA male connector on each end and a "Y" connector for universal compatibility. Innovative design reduces signal distortion. These provide superior connectivity for all analog and digital audio devices. Brand new in sealed RCA blister package. Limited lifetime warranty from manufacturer.

**15Ft Subwoofer Cable (DT15SB)**

**G14699 \$7.95/Set**

**30Ft Subwoofer Cable (DT30SB)**

**G14700 \$12.95/Set**

### RCA DTSA Stereo Audio/S-Video Digital Combo Audio Cable

Features 6ft long flexible braided shield cable with 24K gold-plated textured comfort grip connectors. Each end has 2 gold-plated RCA audio connectors and a gold plated S-video connector. Brand new in retail blister pack. Limited lifetime warranty from manufacturer. Regular price \$16.95.

**G14711 \$9.95**

### 3.5mm Stereo to RCA Plugs Cable

Nice quality flexible cable features a 3.5mm stereo plug on one end and 2 color coded RCA plugs on the other end. Great for connecting speakers to CD players, radios, boomboxes, etc. Cable length: 5 ft.

**G12909 \$1.99 ea.**

### White 3ft. F to F Cable

Molded white cable for connecting VCRs to TVs, cable boxes, etc. Brand new with high quality F connector on each end. Prime- High quality.

**G14018 \$1.00 ea.**

### Tiny Headers & Cable Assemblies

Small cables designed for use in interconnecting PC boards to sub-assemblies, etc. Each ribbon cable has a female connector attached to one end and stripped leads or pins attached to other. The female connector mates to the right angle PC male header (included). Lengths of cable are approx.

Pins	Size	Stock#	Price
3 Pin	13" L	G170	2/\$1.00
4 Pin	4" L	G171	2/\$1.00
6 Pin	4" L	G173	2/\$1.00

### Super High Quality Fiber Optic Cable with Connectors

Flexible black sleeved fiber optic cable features male connectors with removable protection caps on each end. Each end of the fiber has been highly polished for maximum optical transfer. Nice quality-Brand new. Sorry we don't have the name of the connectors, however we were told that these fiber optic jumper cables are in common use in many rack mounted equipment setups. Overall length is approximately 39" long.

**G14763 \$1.49 ea.**

### Amp Super Flexible 33ft. Dual Fiber Optic Cable

Features orange outer sleeve Amp optical fiber cable 1.8mm zipcord. One end has a dual fiber optic connector and the other end has the cable split out to 2 separate single fiber optic connectors. Approximately 33ft. long!

**G14721 \$5.99 ea.**

### RCA DT3HP High Performance Digital Optical Cable with Adapters

This 3 ft long digital fiber optic cable comes with 2 mini adapters to adapt cable to your optical connector. Features optical grade polished transmitter for maximum conductivity. Brand new in retail blister package. Limited lifetime warranty from manufacturer. Regular price \$19.95.

**G14710 \$8.95**

**See Our Additional Fiber Optic Items on Page 35 and online at: [www.goldmine-elec.com](http://www.goldmine-elec.com)**



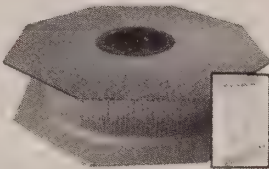
## Reel of 10,000 Bare Wire Jumpers

Factory reel of 2.5" Long 24 gauge bare wire jumpers.

These are very handy when assembling circuit boards. Each

jumper is perfectly straight and is a shiny silver color- ready to be soldered in. Full reel containing 10,000 jumpers.

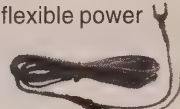
**G14755 \$29.95 ea.**



## Heavy Duty Red/Black Fused Power Cord

Heavy duty 6 ft long red and black flexible power cable with built-in, replaceable 2Amp fuse and large spade lugs on one end.

**G14425 99¢ ea.**



## Male BNC to Female BNC 6ft CABLE

Handy 6ft long cable with a male BNC bulkhead type connector on one end and a female right angle mount female BNC connector on the other end.

**G14822 \$10.00 ea.**



## RCA Digital Heavy Duty 16 AWG Speaker Cable-100Ft Roll

Beautiful RCA speaker wire features heavy duty flexible stranded 16ga conductors with clear PVC jacket. This wire maximizes the sonic performance of all audio devices. Features 100% oxygen-free copper conductors. High power capability and polarity identified. Brand new with limited lifetime warranty by manufacturer! Regular retail price is \$34.95. Weighs 4lbs. #DT100SW.

**G14702 \$14.50/Roll**



## Magnet Wire

Prime enameled coated copper wire on large reels. Each reel is at least 9 pounds and some may be larger so it will be an even better value! Some of these are worth over \$200.00 per reel!



Gauge	lbs.	Stock#	Price
15 gauge	9lb Reel	G15172	\$50.00
20 gauge	9lb Reel	G15126	\$55.00
21 gauge	9lb Reel	G15127	\$62.00
22 gauge	9lb Reel	G15128	\$64.00
23 gauge	9lb Reel	G15129	\$66.00
25 gauge	9lb Reel	G15130	\$68.00
27 gauge	9lb Reel	G15131	\$70.00
28 gauge	9lb Reel	G15132	\$72.00
29 gauge	9lb Reel	G15133	\$74.00
30 gauge	9lb Reel	G15134	\$76.00
31 gauge	9lb Reel	G15135	\$80.00

## Philips 14 Gauge Speaker Wire with Pins (75Ft. Roll)

Giant roll of heavy duty flexible speaker cable (pair) made by Philips. Features clear jacket and 4 gold plated pins with 2 red and 2 black insulated boots that can be used for connecting to your speakers and amplifier. Premium quality with lifetime warranty. Brand new.

**G14733 \$7.95/Roll**



## Acoustic Research HT392 Oxygen Free Micro Flat Speaker Wire

This off white adhesive backed & paintable jacket wire is very handy to use in installations where you need to hide the wire. Consists of 18AWG micro flat wire that adheres to any clean flat surface. After you install it just paint over it. The full HT392 kit consisted of the roll of wire and gold plated pins, however we did not get the pins or instructions, only the roll of wire. The wire is still easy to use because you can simply solder your own jumper wires to the ends of the wire to make connections to your amplifier and speakers. Remember we're selling a full 50 ft roll of the flat wire only (no gold pins or instructions) Check the internet about this exciting product. This is a fraction of the price of the whole HT392 kit.

**G14488 \$6.99/ 50 ft Roll**



## Surface Mount (SMD) Capacitors

### Super Power SMD Ceramic Capacitors

These are the latest types of multilayer ceramic capacitors. Great for thousands of applications where an electrolytic or tantalum capacitor can't be used. These are prime recently manufactured units by muRata and Panasonic. We have 3 different types. All are only .128"L (3.26mm) x 0.1" (2.54mm).

µF	Volts	Stock#	Price
4.7µF	10V	G12952	5/\$1.00
10µF	10V	G12953	4/\$1.00
22µF	10V	G12954	3/\$1.00

### SMD Radial Electrolytic Capacitors

µF	Volts	Stock#	Price
10µF	50V	G8044	8/\$1.00
22µF	6.0V	G8043	10/\$1.00
22µF	35V	G7877	5/\$1.00
100µF	25V	G9575	8/\$1.00
22µF	50V	G9577	5/\$1.00
100µF	6.0V	G8045	8/\$1.00
100µF	6.3V	G7308	12/\$1.00
220µF	35V	G7070	\$1.00

### 100µF 6VDC SMD Tantalum Capacitor

Small epoxy case smd tantalum capacitor is only 0.29"L x 0.17"W x 0.11" Tall. Prime fully marked- Blowout price!

**G14463 10/\$1.49**

### Chip Capacitor Assortment

Various SMD Capacitors. Over 100 pieces in a small zip bag.

**G3118 \$2.50**



## Special Purchase SMD 22µF 10V Tantalum

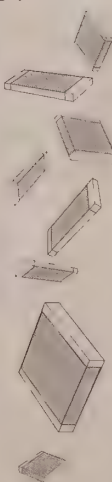
Tiny fully marked prime tantalum SMD chip cap is only 3.6mm L x 3mm W x 2mm Thick. We purchased these at a great price and are passing the savings on to you. These are on tape and reel.

**G2132 10/\$2.00**

### Ceramic Chip SMD Capacitors

Most case sizes are "1206" or "0805". Use stock# to order.

Value	Stock#	Price
2.2pf	G200C	20/\$1.00
3pf	G201C	20/\$1.00
4pf	G202C	20/\$1.00
5pf	G203C	20/\$1.00
12pf	G204C	20/\$1.00
82pf	G205C	20/\$1.00
100pf	G206C	20/\$1.00
330pf	G207C	20/\$1.00
680pf	G208C	20/\$1.00
.001µf	G209C	10/\$1.00
.0022µf	G210C	10/\$1.00
.0033µf	G211C	10/\$1.00
.0047µf	G212C	10/\$1.00
.01µf	G213C	10/\$1.00
.033µf	G214C	10/\$1.00
.047µf	G215C	10/\$1.00
.1µf	G216C	10/\$1.00



### Prime SMD Molded Chip Tantalum Electrolytic Capacitors

We have one of the largest selections and inventory levels of these prime tantalum SMD capacitors. Each SMD capacitor has been made by one of the top names: Kenet, Sprague, Centralab or AVX. All are 100% prime but you need to hurry as we are unable to restock many of the values as they are becoming scarce! Sizes shown are approximate and sometimes vary slightly.

µF	Volts	Size(mm)	Stock#	Price	15	25	7.3 x 4.3	Stock#	Price
1	35	3.5 x 3.0	G1852	3/\$1.00	22	6	7.3 x 4.3	G1874	2/\$1.00
2.2	35	6.0 x 3.2	G1855	3/\$1.00	22	10	6.0 x 3.2	G1877	2/\$1.00
4.7	10	3.6 x 3.0	G1859	3/\$1.00	22	10	7.3 x 4.3	G1878	2/\$1.00
4.7	16	6.0 x 3.2	G1860	3/\$1.00	22	16	7.3 x 4.3	G1879	2/\$1.00
4.7	20	6.0 x 3.2	G1861	3/\$1.00	22	25	7.3 x 4.3	G1881	2/\$1.00
4.7	25	6.0 x 3.2	G1862	2/\$1.00	33	10	7.3 x 4.3	G1884	2/\$1.00
4.7	35	7.3 x 4.3	G1863	2/\$1.00	33	16	7.3 x 4.3	G1885	2/\$1.00
6.8	16	3.6 x 2.8	G1865	3/\$1.00	47	10	7.3 x 4.3	G1887	2/\$1.00
6.8	20	8.0 x 4.6	G1866	3/\$1.00	68	10	7.3 x 4.3	G1889	2/\$1.00
10	16	6.0 x 3.0	G1868	3/\$1.00	100	6	7.3 x 4.3	G1890	2/\$1.25
10	16	7.3 x 4.3	G1869	3/\$1.00	100	10	7.3 x 4.3	G1891	\$1.00
10	25	7.3 x 4.3	G1870	2/\$1.00	100	16	7.3 x 4.3	G1892	\$1.00
10	35	8.0 x 4.4	G1872	2/\$1.00	* Has long hookup tabs				
15	20	7.3 x 4.3	G1873	2/\$1.00					





## Tiny 20pf SMD Trimmer Capacitor



This is one of the smallest variable capacitors made. Standard 1812 ceramic SMD case size with adjustment slot on top.

**G14615 3/99¢**

## Rare "Old Style" Metal Type Variable Gang Capacitor

These were common in older radios, transmitters, etc. and are very high quality large size with ball bearing drive shafts. With these precision made variable capacitors you could "tune" in your station precisely without the sophistication of today's digital frequency synthesis circuits. These are new, however they were made years ago and are almost impossible to find with this quality of construction. Each has 3 gangs. Some parts may be slightly tarnished, but this does not affect their operation. Size about 3 1/8" L x 1 13/16" W x 1 5/8" H with a .38" Dia. x 3 1/8" L brass shaft. Has three 7-24pf gangs.

**G4370 \$7.95 ea.**



## Variable Tiny Trimmer Capacitors

Value	Stock#	Price
3-14pf	G9004	3/\$1.00
3-25pf	G7216	3/\$1.00
3-28pf	G9225	4/\$1.00
6-52pf	G1410	2/\$1.00

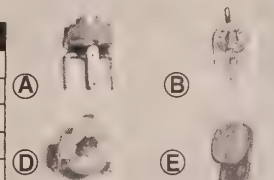


\*All are 7mm (Dia.) x 5mm (H)

## Ceramic Trimmer Capacitors

Fig.	Value	Size	Stock#	Price
A	2-23pf	7mm (Dia.)	G1957	2/\$1.00
B	3-12pf	22mm (L) x 17mm (W)	G9057	\$1.00
D	4-43pf	9mm (Dia.)	G8448 <sup>Δ</sup>	\$1.00
E	5-25pf	19mm (L) x 13mm (W)	G9371	\$1.00

<sup>Δ</sup> bottom adjust \* side mount



## Miniature 4-32pf Adjustable Cap

Miniature adjustable capacitor is only 6mm in diameter and 6mm tall. Green plastic case with adjustment slot on top. Has 2 solder pins for PC mounting.

**G2156 4/\$1.00**

**G2156A 100/\$23.50**



## SMD 50pf Adjustable Capacitor

Tiny 50pf adjustable capacitor by Sprague is only .18"L x .16"W x .10"H. Has 2 tiny leads for connection to PC board and slotted adjuster on top. Has removable moisture clear protecting film on top. Brand new-Blowout price!

**G14764 4/\$1.00**



## 1-7pf Adjustable Capacitor

Tiny rectangular trimmer capacitor is only 4mm square. Has 2 PC leads. Prime, precision made.

**G9857 4/\$1.00**

**G9857A 100/\$22.00**



## High Range Tiny Adjustable Capacitor 2-54pF

Small 2 lead variable capacitor can be set from 2 up to 54pF. Size only .024"Dia. x 0.19" Tall. Has slot for adjustment. Blue color case.

**G14561 2/99¢**



## Tiny SMD 2-6PF Adjustable Capacitor

Made by Murata (part # TZBX4Z060BB110T00) this trimmer capacitor is only 4.5mm sq. x 2.95 mm High. Has thin plastic film over adjustment hole to protect it until you are ready to use it. Has short axial SMD leads.

**G14015 5/\$1.00**

**G14015A Factory Reel of 500/\$60.00**



## Miniature Precision Ceramic .5pf - 5.6pf Adjustable Capacitor

Tiny ceramic adjustable 2 lead capacitor features metal adjustment slot on top. Size only .195" Dia. x .15" High. Lead spacing is .16". Made in Russia by Voltronics International Corporation. Very precision made.

**G13324 2/\$1.00**

**G13324A Factory Box of 1000/\$250.00**



## Disc Capacitors

### .05μF 25V Disc Cap

Small green case disc ceramic cap is only .38" Dia. With long leads.

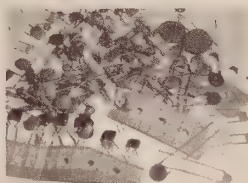
**G13623 6/\$1.00**



## Super Disc and Mono Capacitor Assortment

Super assortment of mostly high quality disc ceramic and some mono capacitors. You will find values Pf up to .1μf and higher. Most have full length leads but some will have cut and formed PC leads. All are prime with the capacitance value marked or in cases of real small caps they are color coded. This is a tremendous value. Full bag of 100 pieces!

**G15304 \$5.00**



## Disc Ceramic Capacitors

Order disc ceramic capacitors by using stock#. Example: Order a .001μf disc ceramic capacitor by using "G564D".

Value	Stock#	15pf	G542D	100pf	G555D	.0022μf	G568D
1.0pf	G530D	18pf	G543D	150pf	G556D	.039μf	G569D
2.2pf	G531D	20pf	G544D	180pf	G557D	.005μf	G570D
2.7pf	G532D	27pf	G545D	270pf	G558D	.0082μf	G571D
3.9pf	G533D	30pf	G546D	330pf	G559D	.015μf	G573D
4.3pf	G534D	33pf	G547D	390pf	G560D	.022μf	G574D
4.7pf	G535D	36pf	G548D	500pf	G561D	.05μf	G575D
5.0pf	G536D	47pf	G549D	560pf	G562D	.068μf	G576D
6.2pf	G537D	50pf	G550D	680pf	G563D	.10μf	G577D
8.2pf	G538D	56pf	G551D	.001μf	G564D		
10pf	G539D	68pf	G552D	.0012μf	G565D		
12pf	G540D	82pf	G553D	.0015μf	G566D		
13pf	G541D	91pf	G554D	.002μf	G567D		

YOUR CHOICE

**10/\$1.00**

(no mixing)



## Mono Capacitors

### Compact 1μF 50V Mono Cap

Prime full length lead mono capacitor is rated 1μF (105) @ 50V. Epoxy case with 0.2" lead spacing. On tape & reel. blowout price!

**G14210 5/\$1.00**

### .1μF 25V Mono Capacitor Blowout

We have thousands of these PC lead prime mono caps. They are fully marked and have about .22" lead spacing.

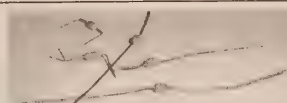
**G2068 30/\$1.00**



### Miniature Axial Mono Caps

Tiny axial lead monolithic capacitors. Many of these have had their leads cut and formed on 3/8" centers for PC board use, however some may not have been cut at all and some were cut but not fully bent over and formed. They are all prime marked epoxy mustard color cased units. You'll find .022μF(223), .01μF(103) and .1μF (104) values in each package. Great price.

**G12780 50/\$1.00**



### Tiny 0.01μF 50V Blue Mono Cap

Tiny 0.01μF radial lead mono caps are only 0.16"W x 0.15" Tall. These have 0.3" Long leads that have a crimp in them for PC board mounting. Each cap is prime and marked "103". Blowout Price!

**G14646 50/99¢**



## Monolithic Ceramic Radial Capacitors

Highest quality compact types made by top manufacturers for IC bypass, power supplies, computers, etc. All trimmed pc leads ready to install onto a pc board. Prime, fully marked 50V units! Size shown is width x height (excluding leads) and may vary slightly. All are 5mm lead spacing.

μF	Size	Stock#	Pkg of 10
.001μF	3.5mm x 2.3mm	G4405	\$1.00
.01μF	3.6mm x 2.8mm	G4406	\$1.00
.1μF	4.5mm x 3.2mm	G4408	\$1.00





# Mylar & Film Capacitors

**ELECTRONIC  
GOLDMINE**

## Giant Mylar Capacitor 20 $\mu$ F 150VAC

Axial lead mylar capacitor is about 1.8" L x 1" diameter. Great for making powerful strobes, lasers, high voltage power supplies etc. Blowout price.

**G14308 \$1.99 ea.**

## 1 $\mu$ F Mylar Capacitor

Blue epoxy case mylar capacitor is a rectangle that is about 0.28" sq. x 0.34" high. It is marked 105 and then NF (we believe it is 50V). Brand new with full length tape & reel radial leads. Blowout price.

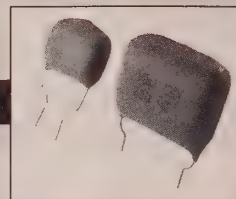
**G14396 10/99¢**

Value	Volts	Size	Stock#
4700pF	630V	.57" x .51" x .27"	G14497
5600pF	1500V	.85" x .58" x .27"	G14498
5600pF	1800V	1.01" x .75" x .39"	G14499
7000pF	1250V	.85" x .6" x .3"	G14500
7500pF	1250V	.85" x .65" x .3"	G14501
7500pF	1800V	1" x .75" x .36"	G14502
8200pF	1250V	1" x .6" x .26"	G14503
9100pF	1250V	.86" x .65" x .34"	G14504
0.002 $\mu$ F	1800V	.83" x .55" x .27"	G14505
0.043 $\mu$ F	630V	.86" x .68" x .4"	G14506
0.100 $\mu$ F	630V	1.06" x .96" x .47"	G14507
0.430 $\mu$ F	315V	.76" x .67" x .34"	G14508

## High Voltage Film Capacitor Blowout!

These are prime film capacitors with high voltage ratings, perfect for lasers, Tesla, geiger counters, ion generators, etc. Each is fully marked and has cut and formed PC leads. Brand new epoxy case types!

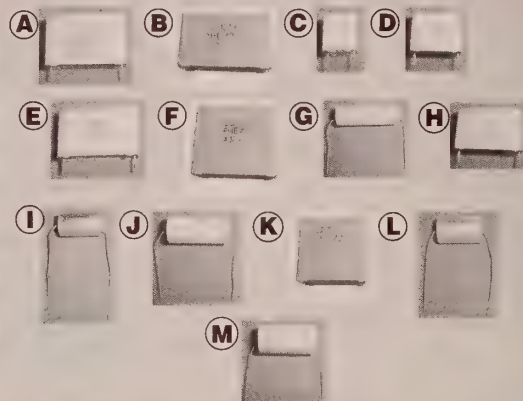
**YOUR  
CHOICE  
8/\$1.00**  
(no mixing)



## Metallized Polyester, Metallized Polypropylene & Metallized Polycarbonate Film Capacitors for Audio Crossover Applications

Low noise metallized film capacitors made for high end a/d/s/ car audio crossover systems. These were installed along with the audio inductors in their famous crossovers. Make your own powerful custom crossovers with these prime, new, high quality capacitors. Made by RIFA/EVOX, IC, ASC and other top brands.

Fig.	$\mu$ F	Volts	Mtg.	Manuf.	Type	Size	Stock#	Price
A	.22 $\mu$ F	1000V	Radial	EVOX	(MMK)	1.2" x .4" x .8"	G13212	\$1.00
M	.47 $\mu$ F	630V	Radial	RIFA	(PHE428)	1.6" x .6" x 1"	G13213	\$1.25
B	1.5 $\mu$ F	63V	Radial	EVOX	(MMK)	.4" x .2" x .5"	G13214	\$0.75
C	2.2 $\mu$ F	63V	Radial	EVOX	(MMK)	.7" x .3" x .6"	G13215	\$0.85
D	2.2 $\mu$ F	100V	Radial	EVOX	(CMK)	1" x .3" x .6"	G13216	\$1.00
E	2.2 $\mu$ F	400V	Radial	RIFA	(PHE427)	1.6" x .7" x 1.4"	G13217	\$1.50
F	4.0 $\mu$ F	250V	Axial	—	—	1.6" x .5" dia.	G13218	\$1.50
G	4.7 $\mu$ F	63V	Radial	EVOX	(MMK)	1" x .3" x .6"	G13219	\$1.25
H	4.7 $\mu$ F	100V	Axial	ASC	—	1.1" x .6" dia.	G13220	\$1.50
I	4.7 $\mu$ F	160V	Axial	IC	(MPW-R)	1.3" x .6" dia.	G13221	\$1.50
J	6.8 $\mu$ F	300V	Radial	RIFA	—	1.2" x .8" x 1.2"	G13223	\$2.00
K	10 $\mu$ F	100V	Axial	ASC	—	1.3" x .8" dia.	G13224	\$3.50
L	10 $\mu$ F	100V	Axial	—	(MPT)	1.4" x .8" dia.	G13225	\$3.50



## "Greenies" Mylar Capacitors

Popular mylar capacitors for various electronic circuits. Most are green epoxy coated, but several are coated with different color epoxy. All are prime fully marked with standard leads.



$\mu$ F	Volts	Stock#	Price
.0022 $\mu$ F	100V	G12878	10/\$1.00
.0027 $\mu$ F	100V	G12879	10/\$1.00
.0039 $\mu$ F	100V	G12880	10/\$1.00
.0047 $\mu$ F	100V	G12881	10/\$1.00
.0056 $\mu$ F	100V	G12882	10/\$1.00
.0068 $\mu$ F	100V	G12883	10/\$1.00
.022 $\mu$ F	630V	G12884	8/\$1.00
.056 $\mu$ F	100V	G12886	8/\$1.00
.068 $\mu$ F	100V	G12887	8/\$1.00
.2 $\mu$ F	100V	G12889	5/\$1.00
.27 $\mu$ F	100V	G12891	5/\$1.00
.39 $\mu$ F	100V	G12892	5/\$1.00
.56 $\mu$ F	250V	G12894	5/\$1.00

## DC Types

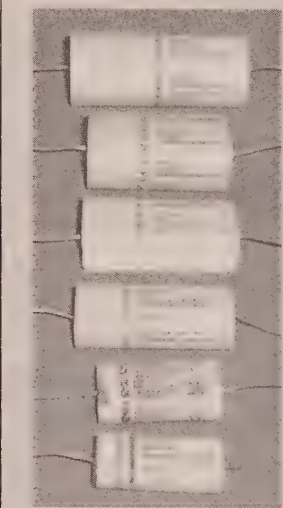
$\mu$ F	Volts	Size (LxH)	Stock	Price
10 $\mu$ F	250V	2.3" x 1"*	G2305	\$4.00
2 $\mu$ F	400V	1.2" x .8"	G12711	\$1.75
3 $\mu$ F	400V	1.4" x .9"+	G12712	\$2.00
3.3 $\mu$ F	400V	1.3" x .9"	G2303	\$2.25
3.3 $\mu$ F	400V	1.8" x .9"	G12713	\$2.35
4.7 $\mu$ F	400V	1.7" x .9"	G2304	\$2.50
3 $\mu$ F	450V	1.4" x .9"	G12714	\$2.45
.22 $\mu$ F	600V	1.8" x .6"*	G12716	\$1.25
.22 $\mu$ F	600V	1.2" x .7"	G12717	\$1.25
.33 $\mu$ F	600V	2" x .6"	G12718	\$1.40
.68 $\mu$ F	600V	1.2" x .7"	G12719	\$1.50
1 $\mu$ F	600V	1.3" x .8"	G12720	\$2.00
1.5 $\mu$ F	600V	1.5" x .9"	G12721	\$2.25

## AC Types

$\mu$ F	Volts	Size (LxH)	Stock	Price
10 $\mu$ F	150V	1.8" x .8"*	G12724	\$3.00
20 $\mu$ F	150V	1.8" x 1"*	G2306	\$4.50
3 $\mu$ F	200V	1.3" x .7"	G12725	\$2.00
1.5 $\mu$ F	220V	1.2" x .5"	G12726	\$1.35
2 $\mu$ F	220V	1.2" x .6"	G2301	\$1.50
2.2 $\mu$ F	220V	1.2" x .6"	G12727	\$1.60
2.5 $\mu$ F	220V	1.2" x .6"	G12728	\$1.75
3 $\mu$ F	220V	1.2" x .7"	G2302	\$2.00
4 $\mu$ F	220V	1.2" x .7"	G12729	\$3.00
4.7 $\mu$ F	250V	1.8" x 1.4"	G12730	\$3.25

## Large Film Capacitors

Perfect for high voltage power supplies, lasers, stroboscopes or night vision circuits. Full length lead oval shaped axial types unless noted otherwise.



\*Round Type +Radial Type

## High Voltage Film Capacitor Assortment

This tremendous assortment contains 8 powerful high voltage film capacitors. Capacitors may range anywhere from .1 $\mu$ F to 3.3 $\mu$ F and higher with voltage ratings from 200 to 400V. DC and AC types will be in the mix. This is a great opportunity to stock up and save! All caps are brand new. Package of 8.

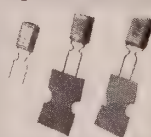
**G13240 \$5.00**



## Compact Radial Mylar Film Capacitor

Small mylar film capacitors are fully marked and have full length leads that are on tape & reel. We have the following values available at a blowout price!

Value	Volts	Stock#	Your Choice
0.043 $\mu$ F	50V	G14544	<b>25/99¢</b> (no mixing)
0.15 $\mu$ F	50V	G14545	
0.18 $\mu$ F	50V	G14546	



## .001 $\mu$ F 1.2KV Compact Mylar Cap

High quality epoxy dipped high voltage mylar capacitor is only .7" L x .2" W x .4" H. With formed leads as shown on .6" centers.

**G13318 10/\$1.00**

## .0536 $\mu$ F 1% 63VDC Precision Film Cap

KP axial lead blue epoxy case precision film capacitor by Philips is about .55" x .26" Dia. Fully marked with full length axial leads.

**G13648 5/\$1.00**



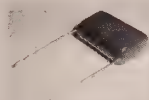


## 2.7µF 250V Mylar Cap

High quality compact for its value, mylar capacitor features a molded epoxy case and long leads spaced about 7/8" apart. Overall size about 15/16" L x 5/16" W x 11/16" T. Prime!

**G1825 2/\$1.00**

**G1825A 100/\$40.00**



## 1µF 63V Metallized Polyester Film Cap

This small cap is perfect for thousands of applications. Brand new PC length radial lead units marked 1J63. 11mm(H) x 5.9mm x 7.3mm. Lead spacing is 5.4mm.

**G2098 5/\$1.00**



## Compact .56µF 100V Mylar Capacitor

Long lead epoxy case mylar capacitor is rated .56µF 100V. Great for triggering capacitor for strobes. Prime fully marked unit is only .47" L x .38" H x .18" W.

**G12955 5/\$1.00**

**G12955A 100/\$10.00**



## Low Profile 22µF 50V Radial Capacitor

Super compact 105°C rated capacitor is only 0.3" Tall x 0.28" dia. lead spacing is 0.20" on tape & reel. Blowout price!

**G14299 20/\$1.00**

**G14299A 100/\$4.00**



## 1µF 50V Non-Polar Radial Capacitor

Small radial electrolytic capacitor is rated 1µF 50V@85°C. Size only 0.44" Tall x 0.2" Dia. Has cut and formed PC Leads.

**G14564 Bag of 100/\$1.99**



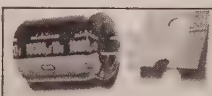
## 10,000µF 10V Radial Super Cap

Compact capacitor made by Nichicon features the latest in technology. This cap is only 18mm (dia) x 26mm (high) yet it's rated 10,000µF @ 10VDC 85°C. Great for thousands of applications including powerful Beam robots! These are full length lead units on tape and reel.

**G4417 2/\$1.00**

**G4417A 100/\$35.00**

**G4417B 1000/\$250.00**



## Compact 33µF 400V Radial Capacitor

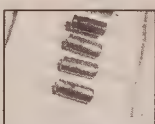
High voltage radial electrolytic capacitor is only 1.04" tall x 0.64" dia. Features 0.5" long leads bent over at a right angle (can be straightened out easily). The leads are on 0.25" centers. Rated 105°, special price!

**G14492 5/\$1.00**



## Axial Electrolytic Caps

Sizes are for reference only and might vary about 25%



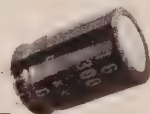
µF	Voltage	Size(mm)	Stock#	Price
3.3*	50	12 x 5	G9194	14/\$1.00
22	10	12 x 5	G9160	10/\$1.00
22	25	12 x 5	G9180	10/\$1.00
30	10	12 x 5	G9161	10/\$1.00
47	6.0	12 x 6	G9152	25/\$1.00
75	16	22 x 8	G9173	10/\$1.00
150	16	16 x 8	G9175	10/\$1.00
220	10	18 x 8	G9165	8/\$1.00
470	16	22 x 10	G9177	5/\$1.00
1000	6.0	25 x 12	G9156	6/\$1.00
1000	100	40 x 20	G8735	\$1.00
1000	100	55 x 22	G7352	\$1.00
2200	25	40 x 15	G9183	\$1.00
3300	25	40 x 17	G9184	\$1.50

\* Irregular leads

## Compact 3300µF 16VDC Radial Electrolytic Capacitor

This large value capacitor is 1"H x 0.65" Dia. and is rated 3,300µF 16VDC@105°C. Has 0.25"L PC leads.

**G14604 3/99¢**



## Small Diameter 1000µF 25VDC Radial Capacitor

This cap is only 10mm (dia) x 300mm tall. Rated 1000µF 25VDC@105°C. Long Leads.

**G14306 5/\$1.00**



## 2 Section High Voltage Radial Capacitor 220 microfarad 180VDC and 550 microfarad 180VDC

Nice upright electrolytic capacitor by Elna is rated 105 degrees C. Overall size excluding terminals: 2.5" tall x 1.44" dia. Black vinyl sleeve. Blowout price!

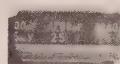
**G14387 99¢ ea.**



## 4700µF 25V Radial Capacitor

Samsung 4700µF 25V radial capacitor is 1.4" x .72" Dia. Full length leads. Rated 85°C.

**G13665 2/\$1.00**



## Radial Long Leads



Sizes are for reference only and might vary about 25%

µF	Voltage	Size(mm)	Stock#	Price
2.2	50	7 x 4	G9070	8/\$1.00
4.7	50	7 x 4	G9072	8/\$1.00
22	16	11 x 5	G9078	20/\$1.00
22	25	11 x 5	G9079	20/\$1.00
22	250	25 x 13	G9855	2/\$1.00
33	6.3	7 x .4	G9081	10/\$1.00
47	16	11 x 6	G9086	2/\$1.00
100	10	11 x 8	G9089	20/\$1.00
100	10	12 x 7	G8705	25/\$1.00
100	35	13 x 10	G8709	10/\$1.00
220	10	16 x 10	G9092	20/\$1.00
220	35	20 x 11	G9095	8/\$1.00
470	60	40 x 25	G9103	2/\$1.00
1000	10	25 x 12	G9106	6/\$1.00
1000	10	19 x 10	G9107	5/\$1.00
1000	50	19 x 17	G9111	4/\$1.00
1500	35	19 x 19	G9114	2/\$1.35
2200	16	25 x 12	G9116	2/\$1.00
2200	16	26 x 13	G8707	4/\$1.00
2200	25	27 x 16	G9118	2/\$1.25
2200	50	39 x 19	G8716	2/\$1.00
3300	16	19 x 19	G9119	2/\$1.00
3300	35	36 x 19	G9120	\$1.50
3900	20	55 x 25	G9121	\$1.00

## Compact Radial High Voltage Capacitors

Great for making strobelights or high voltage power supplies. Each is brand new with full length leads on tape & reel. Each is .83"T x .52"Dia. Rated at 47µF 200 Volts.

**G12602 \$1.00 ea.**



## Compact 220µF 100VDC Radial Electrolytic Capacitor

Compact, long lead radial electrolytic capacitor is rated 220µF 100V@105°C. Size only 1.03" L x .64" Dia.

**G14626 4/99¢**



## High Value Cap 8,800µF 6.3VDC

Rated 8,800µF @ 6.3VDC. Great for switching power supplies or any application where a high level of filtering is desired. Size: 2"T x 1" Dia. Has 3 leads. Made by Nippon Chem-Con.

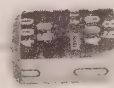
**G6502 2/\$1.00**



## 68µF 400VDC Electrolytic Capacitor

Compact oval shaped electrolytic capacitor is 1.25" L x 1" W x .6" Thick. Has 2 negative leads and one (+) lead. Brand new rated up to 105°C.

**G12815 \$1.00 ea.**

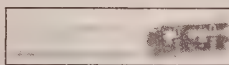


## Compact 10µF 100V High Voltage Radial Capacitor

Small radial capacitor by Rubycon is rated 10µF 100VDC yet is only .47" H x .25" Dia. Temp. rated 85°C. Has long leads on tape & reel.

**G13552 4/\$2.00**

**G13552A 100/\$35.00**



## 50V Radial Electrolytic (106 pcs) Capacitor Component Kits

Here's a great way to have the correct capacitor on hand for a project or repair. These are just like our popular resistor kits and each capacitor kit features a label with components shown. The handy 10 1/2" x 5 7/8" x 15/16" tall cabinet features a multi-compartment pull out drawer and comes with a set of tweezers to use in component removal. Cabinets stack and interlock on each other so you can equip your workbench with an array of the most useful values. 8 each: 0.47µF, 1.0µF, 2.2µF, 3.3µF, 4.7µF, 10µF, 22µF, 33µF, 47µF, 100µF, 220µF, & 330µF. 6 each: 470µF, 4 each: 1000µF.

**G14253 \$15.95**



## Super Compact Photoflash Cap 120µF 330VDC

Made by Rubycon this photoflash capacitor is only 2.1" L x .44" Dia. Features one red and one black 3/4" long color coded insulated leads. These are new but were cut off from photo strobe boards before final assembly. Blowout price!

**G13596 \$1.49 ea.**

**10/\$12.00 • 100/\$100.00**





# Electrolytic Capacitors

**ELECTRONIC  
GOLDMINE**

## Tiny 47µF 16V Radial Capacitor

Tiny 47µF 16V radial capacitor is only .3" Tall x .20" dia. Full length leads - black vinyl case.

**G13663 8/\$1.00**

## Tiny 1000µF 6.3V Radial Capacitor

Made by Sprague this orange case radial is only .5" Tall x .4" Dia. Prime full length leads.

**G13620 4/\$1.00**

## 4700µF 16V Radial Capacitor

High value radial capacitor is only 1" Tall x .64" Dia. Full length leads. Blue vinyl case. 85°C.

**G13652 2/\$2.00**

**G13652A 10/\$4.00**

**G13652B 100/\$35.00**

## Ultra Compact 10µF Radial Capacitor

Small 10µF 63V radial capacitor is only .29" Tall x .25" dia.

These prime capacitors have full length leads. On tape & reel.

**G13646 10/\$1.00**

## Compact 33µF 400VDC Capacitor

This is a very recent design cap that is perfect for high voltage power supplies, strobes, lasers etc. It was made by Panasonic of Japan and features a very compact 32mm (H) x 16mm (Dia.) case. Temp rating is +105°C. Features PC leads on 7mm centers.

**G4039 \$1.00 ea. • 100/\$80.00 • 1000/\$500.00 • 10,000/\$4000.00**

## Computer Grade 36DX Capacitor

Brand new recent manufacture computer grade capacitor that is perfect for all applications including "audio stiffening," power supplies, filtering, etc. Has screw terminals and blue vinyl covering. Made by Nippon Chemi-Con. Size: 2.2"L x 1.39" Dia. (size excludes screw terminals). Rated 340µF @ 250VDC 85°C Comes complete with screws.

**G12734 \$2.50 ea.**

## High Voltage Radial Electrolytic Caps

µF	Voltage	Type	Leads	L x dia (mm)	Stock#	Price	µF	Voltage	Type	Leads	L x dia (mm)	Stock#	Price
0.1	100	Radial	Long	12 x 5	G7427	10/\$1.00	330	200	Radial	PC	35 x 22	G9395	\$2.00
0.1	100	Radial	Long	12 x 5	G6089	10/\$1.00	330	250	Radial	Sanp in	30 x 30	G7349	\$3.00
1.0	100	Radial	Tape	12 x 7	G9720	5/\$1.00	390	200	Radial	Snap in	30 x 22	G8722	\$2.50
1.0	450	Radial	Tape	12 x 7	G9467	5/\$1.00	470	100	Radial	PC	35 x 17	G8715	\$1.00
10	100	Radial	Long	12 x 8	G6564	4/\$1.00	470	100	Radial	PC(3leads)	55 x 25	G9058	\$1.00
22	100	Radial	Long	12 x 8	G9721	3/\$1.00	470	200	Radial	Snap in	40 x 30	G9397	\$2.49
33	100	Radial	PC	12 x 10	G6509	3/\$1.00	680	200	Radial	Snap in	52 x 25	G8723	\$2.75
82	400	Radial	Snap in	25 x 26	G8728	\$2.50	680	200	Radial	Snap in	35 x 30	G9448	\$1.00
100	100	Radial	PC	27 x 15	G5182	\$1.00	820	200	Radial	Snap in	50 x 35	G8724	\$3.00
100	450	Radial	Snap In	40 x 21	G9853	\$1.49	820	200	Radial	Snap in	50 x 21	G9428	\$1.20
100	450	Radial	Snap in	40 x 22	G8729	\$2.50	1200	200	Radial	Snap in	52 x 35	G8726	\$3.25
120	400	Radial	Snap in	40 x 20	G8730	\$2.50	<i>Sizes are for reference only and might vary about 25%</i>						
330	160	Radial	Snap in	40 x 25	G3933	\$1.25							

## Compact 220µF 160V Radial High Voltage Capacitor

Super compact 220µF 160V capacitor is great for strobes and other high voltage applications. Made by Rubycon this capacitor has an 85°C temperature rating and long leads. Size: .71" Dia. x 1" H.

**G13548 \$1.25 ea. • 10/\$9.00**

## Snap In Capacitors

### Compact 470µF 200V Snap In Capacitor

This is probably the most compact 470µF 200V @ 105°C "snap in" capacitor we have seen. It is only 1.02" High x 1.19" Dia. Leads are on .04" centers.

**G14760 \$1.00 ea.**

### 470µF 250V Compact Snap In Capacitor

Compact 470µF snap in capacitor is 2" Tall x .88" Dia. Rated 85°C. Leads are on .35" centers.

**G13595 \$2.00 ea.**

### 560µF 250V Snap In Capacitor

Aerovox type LPR561M200E7P3 snap in capacitor is rated @ 85°C. Size only 1.6" Tall x 1.2" Dia. Leads are on .4" centers.

**G13672 \$2.00 ea.**

### 150µF 200V Snap In Cap

Compact snap in capacitor is only 1.4" High x 0.9" Dia. Rated 105°C. Prime - fully marked. Lead spacing=.045".

**G13824 2/\$1.00**

### 2700µF 200VDC Snap In Capacitor

Made by Nippon Chemi-Con, this "snap in" cap is rated 105°C. Has blue vinyl sleeve. Size: 3.2" Tall x 1.4" Dia.

**G12912 \$3.79 ea.**

### 330µF 200V Compact Snap In Capacitor

Compact snap in capacitor rated 85°C is only 1.29" Tall x .88" Dia. Leads are on .35" centers.

**G13594 \$1.00 ea.**

### Compact Snap In 330µF 250V Cap

Perfect for strobes, high voltage power supplies, lasers, etc., this compact capacitor is only 1 3/16" high x 7/8" diameter. Rated 85°C. Brand new by Nichion.

**G12813 \$1.29 ea.**

### Rubycon 470µF 200V Snap In Capacitor

Compact snap in capacitor is 1.6" Tall x 1" Dia. Rated 85°C. Leads are on .40" centers.

**G13677 \$1.75 ea.**

### 470µF 200V Snap In Capacitor

Made by Nippon Chemicon, this snap in capacitor is 1.6" Tall x 1" Dia. Rated 85°C.

**G13915 99¢ ea.**

## Super Caps

### Compact Super Cap .047 Farad 5.5VDC

Made for memory backup, these caps can also be used in place of batteries in small solar powered projects and robots. Size only 1/2" Dia. x 3/16" tall. Brand new-prime. Made by TONKIN.

**G1399 \$1.00 ea. • 10/\$8.00 • 100/\$75.00 • 1000/\$650.00**

### Super Cap Assortment

Here's the perfect way to find the super cap that is right for your application. Any of these will store energy for tiny robots or memory backup, but now you can easily determine which cap suits your application best. You get 3 different super caps. All prime! Values up to .1 Farad (100,000µF @ 5.5VDC).

**G1404 \$3.00**

### Ultra Compact Super Capacitor

#### 220,000µF 5.5V (0.22Farad)

This is the latest type design in super capacitors. It is only 0.375" Tall x 0.192"W. This is so powerful that it works like a battery. You can charge this tiny capacitor up and it will power a flashing LED for a while. Great for storing solar power when making tiny robots. This is absolutely the best and smallest 0.22 farad, 5.5V capacitor we have ever offered!

**G14761 \$1.49 ea.**

### Tiny Super Cap .10 Farad 5.5VDC

One of the tiniest, but most powerful for its size, super caps we have seen. This cap is only 7/16" Dia. x 3/16"W. We charged one of these and it ran our pager motor until the energy was drained, leading us to believe that this would be a nice cap to use if you are making a tiny solar powered robot. These are so lightweight and small you could use several in parallel for even greater drive power! Can also be used for memory back up!

**G1032 \$1.49 ea.**



## Kemet 5.6µF 15V Dip Tantalum Cap

Prime dip tantalum capacitor by Kemet features full length leads.

**G14705 10/99¢**



## 4.7µF 16VDC Dip Tantalum Capacitors

Prime fully marked mustard colored epoxy case tantalum capacitor rated 4.7µF 16VDC. Full length leads on tape & reel. Blowout price. Only 5¢ ea.!

**G14083 20/\$1.00**



## 10µF 35V 3 Lead Dip Tantalum Cap

Epoxy case dip tantalum capacitor features common outer leads and a center lead (3 leads total). These are prime factory parts marked 106 35K with full length leads on tape & reel.

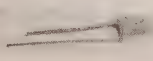
**G14359 9/99¢**



## 1µF 25VDC Dip Tantalum Cap

Features mustard colored epoxy dip case and full length leads. Size of body about .25" H x .15" Dia. Fully marked prime units.

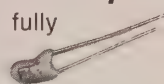
**G13572 10/\$1.00**



## 4.7µF 16VDC Small Dip Tantalum Cap

Long lead tiny dip tantalum is fully marked and prime. Blowout price!

**G13855 20/\$1.00**



## "Bullet" Tantalum Capacitor

Rated 2.2µF @ 35Volts. Prime-Brand new!

**G9841 8/\$1.00**



## Prime Dip Tantalum Capacitors Special Purchase

We made a tremendous buy on fully marked prime dip tantalum capacitors. Hurry we will probably never be able to offer these at this low price again. All of these tantalum capacitors are long leads unless marked with \*. (\*PC Leads)



Value	Volts	Stock#	Price
.33µF	16V	G13414	20/\$1.00
1µF	25V	G13417	15/\$1.00
1µF	35V*	G13418	15/\$1.00
1.5µF	35V	G13419	10/\$1.00
4.7µF	10V	G13422	8/\$1.00
4.7µF	16V	G13423	8/\$1.00
4.7µF	35V	G13424	7/\$1.00
6.8µF	6V	G13425	7/\$1.00
6.8µF	16V	G13426	6/\$1.00
10µF	10V	G13429	5/\$1.00
10µF	16V	G13430	5/\$1.00
10µF	25V	G13431	4/\$1.00
22µF	6V	G13433	4/\$1.00
22µF	16V	G13434	4/\$1.00
33µF	10V	G13435	4/\$1.00
47µF	6V	G13437	3/\$1.00
68µF	6V	G13438	3/\$1.00
68µF	10V	G13439	3/\$1.00
100µF	3V	G13440	3/\$1.00

## Tiny 10µF 6.3V Dip Tantalum

Tiny long lead marked 10µF 6.3V dip tantalum capacitor. Made by Sprague.

**G13942 10/\$1.00**



## Dip Tantalum Capacitors

Prime tear drop shaped solid dip tantalum capacitors. These are marked, fresh units made by Kemet, Mallory, Sprague, Panasonic etc. We have three different types of leads:

A=Long Leads

B=PC Formed Leads

C=Tape & Reel

D=PC Leads

Value	Volts	Leads	Stock#	Price	Value	Volts	Leads	Stock#	Price
.47µF	35V	A	G7082	4/\$1.00	4.7µF	25V	A	G1720	2/\$1.00
.68µF	35V	A	G7084	4/\$1.00	10µF	6.3V	D	G1723	2/\$1.00
1µF	25V	A	G1712	4/\$1.00	10µF	16V	A	G1724	2/\$1.00
1µF	35V	A	G1713	4/\$1.00	10µF	25V	B	G7095	2/\$1.20
2.2µF	25V	D	G1715	3/\$1.00	10µF	35V	D	G1726	3/\$1.00
2.2µF	35V	D	G1716	3/\$1.00	15µF	10V	B	G7097	3/\$1.00
2.2µF	35V	B	G7087	3/\$1.00	15µF	20V	D	G1729	3/\$1.00
2.2µF	50V	A	G1717	3/\$1.00	22µF	10V	A	G1731	3/\$1.00
3.3µF	16V	A	G7088	3/\$1.00	22µF	15V	A	G1732	3/\$1.00
3.3µF	25V	D	G1719	3/\$1.00	22µF	16V	A	G7098	2/\$1.00
4.7µF	10V	A	G7091	3/\$1.00	47µF	6V	A	G7102	2/\$1.00
4.7µF	16V	C	G7092	3/\$1.00	68µF	15V	B	G7105	\$1.10
					330µF	6V	A	G7112	\$3.00

## 15µF 16VDC Dip Tantalum Cap

Small dip tantalum capacitor with long leads. These are on tape & reel. Prime fully marked.

**G13796 5/\$1.00**



## 47µF 16VDC Dip Tantalum Cap

Prime dip tantalum capacitor features 0.55"L leads and compact size. Size only 0.31" Tall x 0.21" Dia. On tape and reel.

**G14734 4/\$1.00**



## 1µF 25V Dip Tantalum Cap

Tiny dip tantalum capacitor with radial leads. These are prime fully marked parts.

**G14470 10/99¢**

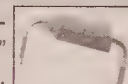


## Tiny Axial Lead Tantalum Capacitors

These small axial lead capacitors feature PC cut and formed leads on 0.5" centers. Body size is 0.29"L x 0.1" dia. Prime fully marked - Blowout Price! We have two types of these caps.

**G14301 6.8µF 15VDC 10/\$1.00**

**G14302 10µF 10VDC 10/\$1.00**



## 6.8µF 16VDC Dip Tantalum Cap

Small dip tantalum capacitor with long leads. These are on tape & reel. Prime fully marked.

**G13792 5/\$1.00**

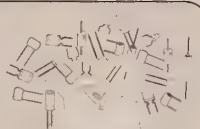


## Capacitor Assortments

### Box of Capacitors

Box full of all types of capacitors including: disc ceramic, tubular mylars, electrolytics, tantalums, etc. Some PC leads, but all are marked and prime. You get at least 1,000 pcs in a 7" x 5" x 5" cardboard box. This is a great way to stock up your parts bin.

**G3060 \$20.00**



### Silver Mica Assortment

Useful assortment of 20 marked dipped silver, mica capacitors.

**G137 \$1.00**



## Miscellaneous Capacitors

### High Voltage 2.2µF 400V Axial Film Capacitor

Long axial film capacitor by dearborn is 1.75"L x .71"Dia. Rated 2.2µF 10% 400VDC.

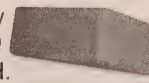
**G14831 99¢ ea.**



### High Voltage 47NF 1600V Film Capacitor

Powerful high voltage capacitor by Philips is rated 47NF (.047µF) @ 1600V. Size only 1.18"L x .5"W x .87"H. Fully enclosed blue epoxy case with radial PC leads on 1.1" centers.

**G14832 99¢ ea.**



### Super Compact 470µF 200VDC "Snap-In" Capacitor

Super compact "snap-in" radial capacitor is only 1.4" tall x 1"Dia. Rated 470µF 200V @ 105°C.

**G14842 \$1.49 ea.**



### 470µF 350V Compact Snap-in Capacitor

Made by Nichicon this snap-in capacitor is only 1.2" tall x 1.39"Dia. Rated 105°C.

**G14889 \$1.49 ea.**



### Nichicon 12,000µF 50WV "Snap-In" Capacitor

Snap-in capacitor is rated 12,000µF 50VDC @ 85°C. Size about 2" tall x 1.2"Dia.

**G14836 99¢ ea.**



### Compact 1800µF 25VDC Radial Electrolytic

Compact radial electrolytic is only 1" tall x .64"Dia. Has long leads on .30" centers. Rated 1800µF @ 25VDC 105°C.

**G14837 99¢ ea.**





## Tiny CDS Cell

Tiny CDS cell varies resistance with light. These feature a top surface of .16" x .14". Top of cell has been dipped in clean moistureproof coating. Has long leads. Dark resistance over 20MΩ- Light resistance less than 1KΩ.

**G15175 2/\$1.00**

## T018 Metal Case CDS Cell

Small T018 metal case CDS cell varies its resistance with light. Reliable sealed case with clean top window and full length leads. Light resistance less than 1K- Dark resistance over 20MΩ.

**G15176 \$1.00 ea.**

## Standard Size CDS Cell

Small .29" x .24" x .07" CDS cell with long leads. The head of this CDS has been dipped in clean epoxy to help block moisture. Dark resistance over 8M- Light resistance under 1K.

**G15177 2/\$1.00**

## Giant CDS Cell Assortment

This is our largest and best variety of light dependent resistors (CDS cells) that we have ever offered. You will find metal case, plastic case, ceramic, giant types and miniature types. Each assortment contains several different CDS cells. CDS cells change their resistance from a few ohms in light to K ohms or meg ohms in darkness. All have full length leads but a few may be defective so we give you 20 pieces. Great for experimenting or designing all types of robot projects, light sensitive alarms, light sensitive switches, etc.

**G14025 Package of 20/\$3.00**

## Medium "Pancake" CDS Cell

Flat .43" x .40" oval shape CDS cell features epoxy dipped surface for moisture blocking. Resistance varies with light. Dark resistance over 1MΩ- Light resistance less than 200Ω. Full length leads.

**G15178 99¢ ea.**

## Large High Resistance CDS Cell

Large high resistance CDS cell with surface dipped in clean epoxy to help keep out moisture. Size of cell is 1" x .85". Dark resistance over 25MΩ- Light resistance less than 1KΩ.

**G15182 \$1.39 ea.**

## Giant CDS Cell

Giant light sensitive 1" Dia. CDS cell with dark res. in megohms and light res. less than 1KΩ. Prime! Brand New!

**G1296 \$1.00 ea.**

## High Resistance CDS Cell

Small high resistance CDS cell with surface dipped in clean epoxy to help keep out moisture. Size of cell is .29" x .26". Dark resistance over 50MΩ- Light resistance less than 1KΩ.

**G15179 \$1.29 ea.**

## 3 Lead CDS Cell

Small .29" x .26" CDS cell features 3 leads. Between the outer leads the resistance in the dark is over 100MΩ. In light the resistance between the outer leads is less than 1KΩ. The center lead is connected as a tap to the 2 outer leads, however it does not divide the resistance between the outer leads in equal values. Long leads.

**G15180 \$1.49 ea.**

## Large Metal Case CDS Cell

Fully enclosed CDS cell with clean top lens features long leads and sturdy construction. Resistance varies with light- Dark resistance over 100KΩ- Light resistance less than 100Ω.

**G15181 \$1.25 ea.**

## Cellular Phone Items

### Cell Tek Rapid Charger / Conditioner for 6V Nicads

Brand new rapid charger made for OKI 1325/1335 cell phone batteries. These can be adapted to quick charge any 6 V cell phone nicad battery (that is designed for quick charging). Features quick or slow charge mode, LED indicators, which show battery status, circuitry to prevent over charging and a conditioning system that allows you to discharge your battery to prevent "memory effect". These come with AC adapter for home use, a cigarette adapter for auto use and a set of instructions all packaged in a nice retail box. Note: if you wish to use it with your particular cell phone battery - you must adapt it to your battery and make sure that it works properly for your specific battery. We don't have any information on doing this and can not take any responsibility for misuse. These are prime brand new units.

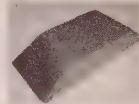
**G9305 \$6.95 ea.**



### Emergency Power Source for Microtac Series Cell Phones

Perfect for extended trips when you don't wish to take your charger. Simply install 8AA alkaline batteries into this unique holder and place it on your cell phone (just like your regular Nicad pack). Can be refilled over and over again by just replacing the AA batteries. Looks, attaches, and works just like your Nicad pack. Perfect for emergencies or long trips (keep it in your glove compartment or briefcase for an emergency). Battery Pack/holder only. No AA batteries included. Brand new in blister pack. Grey color. Made by Cell Tek.

**G4475 \$2.00 ea.**

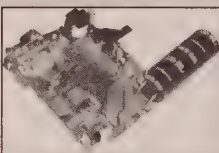


## Circuit Boards

### Photo Strobe Board

Compact strobe features a small Xenon strobe tube mounted in a reflector and all necessary inverter circuitry. Simple to use- just connect an "AA" battery (not included) to the power input terminals, solder a push-button switch (not included) to the firing terminals. Has ready light, and powerful bright white flash. Strobe PC board only plus hookup instructions- No case, battery holder or push-button switch.

**G14799 99¢ ea.**



### Push-Button Switch

Push-button switch with wire for Photo Strobe Board at left.

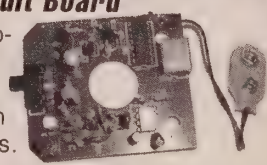
**G14800 69¢ ea.**



### Electronic Chime Circuit Board

This was the inside of a sophisticated electronic doorbell and it can reproduce a 2 tone doorbell sound with minimum additional parts. Just supply any small (2" or greater) speaker, a pushbutton switch and one 9V battery. We supply the hookup diagram. Size 2.5" x 2.16".

**G15268 99¢ ea.**



### 433MHz Wireless Glass Break Sensor/Transmitter Circuit Board

These were from a wireless alarm unit that detected the sound of breaking glass. It would upon activation transmit a 433MHz signal to an alarm receiver. The ultrasonic transducer has been removed and so we are selling this board "AS IS" only. We have no specs or other data except we know it operated on 9VDC and is about 2.9" x 4". There actually is 2 boards connected. The smaller PC board shown is a self contained 433MHz transmitter board.

**G15307 99¢**



### Wireless Door Alarm Circuit Board

This circuit board was the heart of a wireless alarm system. When a door or window was opened the reed switch contacts on this board would operate causing the circuitry on this board to transmit a 433MHz signal to an alarm receiver. Sold "AS IS" only. Size about 4" L x 1.68"W (aprox.). Made for 9VDC operation. Sorry no specs or hookup info.

**G15306 99¢ ea.**



### Sophisticated Photo Strobe With Automatic Flash Power Output Circuit

Sophisticated photo strobe features automatic adjustment of flash power, IC circuitry and small Xenon strobe tube with reflector. Unfortunately we do not have the hookup info on this strobe so we are selling it at a blowout price. No case or batteries available. These look like they are in new condition ready to be installed into the case. Sold "AS IS" only.

**G14812 \$1.99 ea.**





### Cigarette Lighter Plug Power Supply Board

Small circuit board was meant to fit inside a cigarette lighter plug and convert 12VDC to a regulated voltage for charging cell phone nicad batteries. Has IC, diodes, LED indicator, various resistors, capacitors, miniature fuse, etc. Sorry no other info, brand new - board only - no plug.

**G1676 \$2/\$1.00**

### Public Address Amplifier Module PAA-2

These were made many years ago and are in a faded retail package, however, the product itself is new and fully functional. Simply add a 6V lantern battery, a carbon mike (found in older-style telephones), and any speaker and you have a voice amplifier for P.A. use. Small module has only 3 leads. Complete with hook-up info.

**G4452 \$2.50 ea.**

### Rapid Charge NICAD Smart Charge Board

Sophisticated circuit board was the "brains" of a cell phone Nicad battery pack charger. It initially charges a 6V (5 nicad) pack at about 600-750ma. As soon as the battery reaches capacity the charger automatically senses it and drops its charge level down to around 90 ma or less to just maintain the battery without overcharging. Board is about 3" square and has 3 ICs and 3 transistors, several status LEDs, etc. These are brand new and they do require an AC adapter capable of outputting at least 750 ma at 12 VDC. We don't have the schematic of these but they are simple to hookup (power in and power out). Prime - these were meant to be installed in expensive smart charger bases for various cell phones.

**G8615 \$3.50 ea.**

### Small Digital Clock and Timer Relay

Made for a coffee machine this clock can be used as a standard clock plus it has a heavy duty set of contacts that can be set to switch 120VAC to any device you choose at the time you choose. Contacts are SPST connected to 120VAC and rated 10 amp so you can switch on a 1.2KW flood lamp or appliance at the desired time. Digits are bright red and can be seen at a distance. Has hour, minute and auto switch buttons plus manual override knob to switch a device on manually. Solder a line cord and wire up to your device and you're in business. Size only 2 1/16" x 2 3/8" x 2 1/4". Brand new!

**G1754 \$4.95 ea.**

**G1299 White SPT-2 Line Cord (for above) 2/\$1.00**

### 12VDC Fluorescent Tube Driver Board

This sophisticated circuit board was designed to convert 12VDC to a high voltage needed to drive fluorescent tubes such as our blacklight tube or our white backlight display panel. Simply connect 12VDC to the input terminals, connect start terminals together, and whatever tube you have connected to the output terminals will light up for about one minute. The board then needs to cool for a minute before you activate it again. Features a red "on" LED indicator. Size: 2 7/8" x 1 7/8".

**G9614 \$1.89 ea.**

### Light Alarm Circuit Board

Tiny 1 IC alarm features a loud buzzer, an on/off switch and CDS activated circuit. Connect a 9V battery (not included) to snap, turn switch on, and you have about 10 seconds to place unit in a dark room, drawer, closet, etc. Now if someone turns on a light or opens a drawer exposing the CDS to light the alarm will sound! Size of PC board is about 1.14" x 1.54". New.

**G14590 99¢ ea.**

### Control Board for Solar Panel / Battery / Light

This small 2 1/8" x 1 7/8" circuit board features a LM358 IC, a CDS cell and associated circuitry to control the lighting of a bright 6V lamp (attached) from a 6V lead acid battery (not included). The board was connected to a 10V solar panel (not included) and it would light by the amount of voltage on the battery. The circuit would not allow the battery to discharge beyond a certain voltage level. The boards were removed from functioning lights, however we have no other info or schematics.

**G4601 \$1.00 ea.**

### Pager Board Type A

These are complete pager boards with vibrating motor. They were probably designed for restaurant paging applications but we are not sure. We are selling them "AS IS" for parts only. Size is about 2 9/16" x 2". Contains a tremendous quantity of SMD resistors, capacitors and also several through hole type crystals, a vibrating alert motor, etc. Used-"AS IS".

**G12869 \$1.00 ea.**

### Pager Board Type B

These are complete pager boards with a miniature vibrating type pager motor. Each has 2 crystals, a ferrite antenna, filters, SMD parts, etc. These were designed to operate on one of the 2 AAA nicad packs we sell and have a built in connector for connecting to them. Size of board is about 2" x 2 9/16". Sold "AS IS" for parts only. Used-"AS IS".

**G12870 \$1.25 ea.**

### Super Breadboard

Compact breadboard for making prototype circuits features 60 groups of 5 connected terminal points. Handy for prototyping thousands of circuits. Each terminal firmly grips the lead or IC pin inserted into it. Reusable over and over again. Size 3 1/4" L x 1 3/8" W. White color plastic with peel and stick foam tape on base so you can mount it on a chassis if desired.

**G9849 \$3.98 ea.**

### Large Universal Breadboard

Handy breadboard for making prototype circuits. White 6 1/2" x 2 1/8" quick connect breadboard accepts almost all types of electronic components and wires. Consists of 126 groups of 5 connected terminal points and 8 bus lines of 25 connected terminals. Brand new-High quality.

**G8534 \$4.75 ea.**

### Blood Pressure Monitor Circuit Board

This 3 1/2" x 3 1/4" circuit board contains various ICs, a microprocessor, LCD display and a large electronic pressure transducer. The board is new, however the air pump, air solenoid, front panel, etc. have been removed so we are selling them "AS IS" only. We did connect up 9VDC to the red and black leads-the LCD displayed numbers and when we blew into the tube, the numbers changed. We definitely do not recommend trying to measure blood pressure with these, but they are fascinating to experiment with. Sorry, no data available.

**G2023 \$6.95 ea.**

### Panic Dialer Xenon Strobe Circuit Board

This 4 3/4" x 5 3/8" circuit board contains several high voltage coils, inverter transformer, xenon strobe and phone dialer IC. It also has various resistors, capacitors, diodes, etc. Sold "AS IS". We have no data and we have no idea how to make it work.

**G15321 \$4.99 ea.**

### Magic Sound Switch

Triggers with "clap of hands". Turn on low voltage lamps, motors, radios, relays etc. Operates on 3VDC. Has built in crystal microphone, SCR and sensitivity control. Complete with schematic. Size 2" square.

**G2219 \$1.00 ea.**

### ALPS Micro Cassette Assembly

Consists of a very efficient miniature (0.97" Dia. x 0.48" High) motor with pulley and various small springs, gears, pulleys, rollers, etc. This one even has the small tape head. Does not include any electronics or amplifier. Brand new, no data except we know the motor can operate on as low as 1.5VDC. Overall approximate size: 2.7" x 2.6" x 0.8". This is a super deal at a blowout price!

**G14250 \$1.99 ea.**



## Bag of Coils

Sealed manufacture bags of 100 coils. These are all prime and made by Communications Associates. Has wire leads. 1/8" one hole ferrite bead.

**G6624 Bag of 100/\$2.00**

## Adjustable Slug Tuned Coil

Small coil features about 10 turns of wire on a 3/16" Dia. form. Has ferrite slug that is adjusted from bottom of coil.

**G7024 4/\$1.00**

## Toko Coil

Small transformer coil made by Toko for use in circuit to drive displays using 3V to 12VDC. Coil comes complete with schematic of a simple 2 transistor 2 resistor inverter circuit using the Toko Coil, you supply transistors and resistors, etc.

**G2859 \$1.00 ea.**

## Dale Ferrite Core 10μH Inductor

High quality inductor made by Dale features a 10μH value and heavy duty tinned wire leads. We're not sure how many amps this inductor can handle, but it probably is at least in the 10 to 20 amps range. Part# is 1H-20, 10μH. Size about 1 1/2" L x 5/8" Dia.

**G9984 \$1.00 ea.**

## Computer Items

### Brand New Internet Keyboard by IBM

This smooth action keyboard features a detachable palm rest for greater comfort and various word processor, spreadsheet, and internet "hot keys". Although it is brand new we do not have software to use with the keys so we were not able to see any results from pressing the various hot keys - all regular keys and functions work fine. If you know how to activate these "hot" keys this is a tremendous price! Beige color. Brand new in plastic wrap/bag but no retail packaging and no other info on use of hot keys available. Branded IBM model KB-7993

**G1613 ~~\$10.00~~ SALE! \$6.00 ea.**

### Super Power Surge Protector Outlet Strip

Brand new 7 outlet power strip with 4 ft. power cord, indicator light type on/off switch, protection indicator light and auto power shut down when surge protection capacity is reached. Rated at an incredible 450 Joules for surge energy dissipation. Maximum surge voltage is 6000 volts and maximum spike current is 13,500 amps. These high quality units are made by Woods and are individually boxed.

**G9969 \$9.95 ea.**

7 outlet surge protector outlet strip with additional protected computer modem modular jack with 70 Joule protection. The 7 AC outlets have the exact same specs as above.

**G9608 \$12.00 ea.**

### Computer Cable

Handy male DB25 to male DB25 computer cable has all 25 pins connected from one connector to the other. Length is 18" long. Brand new with molded connectors on each end.

**G3910 \$4.00 ea.**

### Ferrite Core Interference Reduction Kit for Monitors

Special ferrite core material and tie straps in a handy package. This kit was to be supplied with video monitor cables. It has complete simple to use instructions. To use just place both halves of the ferrite core (2 complete sets are included) around the end of the monitor cable (by the connector) that goes into the computer and then cinch the tie wrap included around the core. Repeat the process for the other end of the cable that goes to your monitor and you have an easy way to reduce or completely eliminate any RF interference. Brand new sealed package with cores, tie wraps and instructions. Perfect for computer monitors!

**G7771 \$1.00/Set**

### Super Computer Cable Neat/Clean up Kit

This kit consists of 10 small 3/4" sq. peel & stick permanent white anchors that have an opening for a 3 1/2" white nylon tie wrap. The kit also includes 10 of the tie wraps and 4 wood screws. These items make it simple to "clean up" the mess of cables, line cords, etc. that are under a desk or table. No instructions but this kit is simple to use.

**G14621 \$1.00/Kit**

### 6 Outlet Grounded Plug

This handy 6 outlet grounded plug converts any standard 2 outlet wall outlet (grounded type) to a 6 outlet plug. Simply plug it into your existing wall outlet. Rated 120VAC, 15amps, 1800 watts. Brand new.

**G9824 \$3.98 ea.**

### DB15 Male to DB15 Female Mac VGA Extension Cable for Monitor

Molded computer cable is 6.5ft long and features a male DB15 on one end and a female DB15 on the other.

**G14089 \$1.49 ea.**

### Motorola 56K Global Modem

Surf the Web, check email, fax and take your office with you using your laptop and this PCMCIA PC card with your Motorola phone. Comes with software for Windows 95/98, Windows CE and NT 4.0, plus cable to connect the PCMCIA modem card to your StarTAC® phone or wall phone jack. Connected to a landline, the modem works at up to 56kilobits per second. Through the cellular network, it connects at 9.6kbps. Features built in 4MB flash memory. It works with: V3620, StarTAC® 3000, 6000, 6500, 8500, 8600, ST7760, ST7790, ST77901, ST7860W, ST7867W, Timeport™ P8767, V.Series™ V8160 and V.Series™ V8162 phones. Brand new in sealed retail package. Worth \$279.00

**G14304 \$49.99 ea.**

### Lighted Universal PDA Stylus

Very handy PDA stylus has a tip that lights up yellow for using your PDA in low light conditions. Has different screw on end caps to allow use with Palm (tm) M100 series, M500 series, III, V, VII series, Handspring (R) Visor, Deluxe, Neo, Platinum, Prism, Compaq iPaQ (TM) 3100-3700 Series, Sony CLie (TM) PEG N, PEG-S Series, IBM Workpad (TM) C3, C505 and TRG Pro (TM). Has built in BR435 3V lithium battery. Brand new in retail package by SAItex.

**G14937 \$1.99 ea.**

### Microphone for Computer Sound

High quality microphone for use with your computer sound system features grey cord, handy peel-N-stick mounting holder and 3.5mm plug as shown. Prime unit-same as sold in many computer stores.

**G7939 \$2.49 ea.**

### Automatic/Manual/A/B Printer Switch Box

Very useful switch box to connect two IBM or compatible computers to one printer. This switch box has 2 inputs (A&B) where you connect the printer cables coming from your computers, and one "C" output for your printer. The box can operate in automatic or manual mode and has a switch to disable the "auto form feed" and to set "time out" between 10 and 60 seconds. Brand new, manufactured by System Connection, model # AS/2AS-251P and comes in the original packaging with installation instructions. An external power supply (6-9VDC, 500mA) might be needed in some cases, but in most cases the box operates from the power coming from the computer. With complete instructions.

**G14087 \$5.99 ea.**

### Deluxe Backlight Panel

White light-up panel for laptops made for Apple Computers features several diffusion films and a clear plastic base surface with a conductive see-thru deposited grid pattern. These are brand new and are about 8 1/2" x 5 1/4" (excluding the white fluorescent tube on one edge). The tube is a miniature 5 1/2" x 3/32" Dia. bright white fluorescent tube which can be driven by many common inverter circuits (tube is shown at bottom of photo). As soon as the appropriate power is applied to the two flexible power leads, the entire panel glows a bright even white color. In sealed manufacturer bags.

**G9620 \$8.95 ea. • 5/\$40.00**



### Wilson Micro Passive Sports Speakers

Very compact pair of sports yellow speakers for stereo radios, cassette players and laptop computers. These are shielded so they won't cause interference with your computer display monitor. Size only 2 1/2" x 2 3/4" x 3/4". Features gold plated 3.5mm stereo plug, splash and dust resistant design. Frequency response: 100Hz-16KHz. Model 1210001. Brand new in sealed retail blister packs.

**G8405 \$5.95 ea.**



### Tiny Trackball

This is probably the tiniest trackball ever made! It measures only 1 11/16"L x 13/16"W x 3/8"H. Made by Alps for a major laptop computer maker that went out of business. They are very precision made and highest quality. The components are all SMD with an IC marked 3JA1DT002/TB6012CF and a tiny 8 position connector. They appear to be complete, new and very recent in manufacture. We have no hookup info or schematic, but at this price we know that you'll be impressed and want to experiment with them, use them for replacement or figure out the hookup!

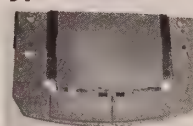
**G5514 \$1.50 ea.**



### Touch Sensitive Gliding Type Mouse

Late model touch sensitive mouse made for laptop computers. These are about 4 5/8" x 2 7/8" x 3/16". They have a part# of 808-874649-002-A 66503215 Rev. B on the part. Contains several ICs and a 4 pin miniature female connector on the circuit board underneath unit. Has large touch area and 2 click buttons. These are brand new complete made by ALPS. Perfect for experimentation or replacement. Sorry no other data available.

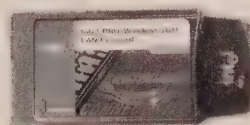
**G1283 \$2.49 SALE! \$1.00 ea.**



### Intel® PRO/ Wireless2011 LAN PC Card

Fast, reliable network connectivity, even when you're not at your desk. This advanced hardware design card features secure high-speed (2.4GHz, 11Mbps) connectivity while roaming. Complies with IEEE 802.11b standard. Ready to run in type II or type III PCMCIA-equipped notebook PCs running Windows® 95, 98, 2000, NT and Millennium. Operating range at 11Mbps is 100ft. at 2Mbps is 230 ft. Outdoor range is up to 1,500 ft. These are brand new in sealed retail box with driver CD, user guide and registration card. These will work with nearly all major network operating systems.

**G13765 \$49.95 ea.**



*Sorry, we have no knowledge of Windows XP® compatibility*

### Intel® PRO/Wireless 2011 LAN Access Point

Wireless hub that enables network connectivity quickly and easily. The Intel PRO/Wireless 2011 LAN Access Point serves as a 2.4GHz, 11Mbps bridge between your existing wired network and your wireless network devices (see G13765 above). Solves network wiring concerns in locations where network access is desirable, but network wiring is impractical. Can also serve as a repeater so that you can create a wireless backbone. Features dual dipole antennas that allow for either omnidirectional or directional signal control, remote network management via a standard web browser, 2.2dBi dipole antennas with diversity support. Size is 6"L x 8.5"W x 7.75"H. IEEE compliance: 802.11b, 802.3 (10BASE-T), 802.1d spanning tree, 802.1H. Range is 100 ft in closed environment and 400 ft in open environment. Complete with power supply with US and international outlet adapters, wall/ceiling mounting bracket, software CD and instructions. Brand new in retail box. Intel lists this item at \$825.00.

**G14052 \$99.95 ea.**



### CD-Rom Cardz

Very popular CD-Rom cardz feature at least 4 CD-Rom cards in each set. The CD-Rom cards contain an in-depth look at the story, characters, actors, movie highlights, screensavers, film trailers, sound FX, etc. These collectible sets are brand new and sell for about \$19.95 per set on the internet and in stores. Both PC and Mac compatible. Works in most tray type CD-Rom computer drives. Not compatible with slot loading CD drives. We have the following sets available:



Title	Stock#	Price
Lord of the Rings™	G13879	\$5.00/Set
Stuart Little 2™	G13880	\$5.00/Set
Outer Limits™	G13881	\$5.00/Set
Planet of the Apes™	G13882	\$5.00/Set
Stargate SG-1™	G13883	\$5.00/Set
Final Fantasy™	G13884	\$5.00/Set

### H H Smith Red Binding Post

Standard size deluxe Red binding post by H H Smith accepts standard banana plug on top and allows you to screw post knob down to hold wires. Insulated panel mount type with all hardware in a sealed manufacturer bag. Part# 799-102.

**G13513 \$2.00 ea.**



### Gold Plated Car Battery Connector Side Mount

Heavy gold plated connector for side mounted car battery terminal. Heavy gold plated terminal has large set screw to hold standard battery cable. Deluxe attractive precision made connector for batteries that have their terminals on the side.

**G13181 \$4.95 ea.**



### Quick Connect Insulated "Push Down" Wire Connector for PC boards

Small rectangular plastic connector is mounted to your PC board using screw supplied (this is also used for the electrical connection to the PC board). To connect a wire to that electrical connection on your PC board, you simply push down on the top insulated button and insert up to an 18 ga. wire. When you release the button the wire is held firmly making perfect electrical contact. Great for car audio projects. Size about .5" sq. x .75" tall. We have two colors available.

**G13130 Red 2/\$1.00**  
**G13131 Black 2/\$1.00**



### Gold Plated Audio Quick Connect Wire Terminals

High quality gold plated terminals made to connect speaker wires to speakers. These are brand new and were made for a/d/s/. They are about 1/2" diameter x 3/4" tall. To use simply mount terminal to 1/4" thick cabinet using the supplied bolt. Now press down on the top of the terminal and 2 holes about .15" in dia. appear so you can insert your wire or wires. When you release the top, a firm perfect audio connection is made. Brand new-precision made. Available with color code insert on top of black or red.

**Black G13136 \$1.49 ea.**  
**Red G13137 \$1.49 ea.**



### Gold Plated Binding Post

High quality precision made heavy gold plated binding post. Feedthrough panel mounting type with panel mounting insulating rings and gold nuts for mounting. Size above panel about .87" tall x .42" dia. Positive screw type action with large hole for connecting large diameter wire securely for serious audio applications.

**Black Ring G13163 \$2.00 ea.**  
**Red Ring G13167 \$2.00 ea.**



### Gold Plated RCA Male Plug

Very high quality gold plated RCA male plug was made for use in a/d/s/ car stereo system applications. It features a gold plated strain relief, a gold plated knurled metal body and a thin color band (red or black) to allow easy identification. This is a very nice plug! We have 2 colors.

**Red Band G13140 \$1.49 ea.**  
**Black Band G13141 \$1.49 ea.**



### Handy RS232 DB25 Male to Female Jumper Box

This is one of the most useful items to have when working with RS232 parallel ports. Consists of a small box with a male DB25, a female DB25 connector and a PC board. Each pin that you desire of the male connector can be soldered to the female by using the included pre tinned jumpers. The pc board even has pads to mount. LEDS (not included) if you wish. Box is about 2.5" x 2" x .67". Attractive box can be snapped together after your jumpers have been installed. Brand new. Retail package. Worth \$10.00.

**G13235 \$4.95**





## LCC Plug Kit 3-pc Type Connector

Small precision connector for coax cable comes in sealed bag with instructions. We have 2 types made by ADC.

4-40001-2556 45 **G14158 \$1.00 ea.**

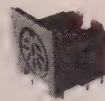
4-40001-2565 42 **G14159 \$1.00 ea.**



## 8 Pin Din Connector

Right angle mount 8 pin din connectors for standard size din plugs. Blowout price.

**G14459 \$5/99¢**



## BNC 45° Connector for DS-3/4

### Interconnect Type 734 Coaxial Cable

This crimp on BNC connector is type 2026-28-7 and is approved for SBC use. Made by Kings Electronics, these are in factory sealed bags with instructions printed on the bag.

**G13893 \$1.00 ea.**



## BNC 45° Connector DS-3/4 Interconnect Type 735 Coaxial Cable

This crimp on BNC connector is type 2026-30-7 and is approved for SBC use. Made by Kings Electronics, these are in factory sealed bags with instructions printed on the bag.

**G13895 \$1.00 ea.**



## BNC 90° Connector Type 2026-27-7

Made by Kings Electronics this BNC features a 90° mount and is for SBC use only. Can be used with DS-3/4 coax cables. Brand new crimp type in sealed bag.

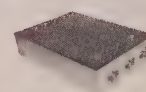
**G13983 \$1.00 ea.**



## Massive Gold Plated Power Distribution Plate for Car Audio Applications

This heavy duty gold connection plate features 3 large holes with gold plated hex set screws for attaching wires the size of battery cables. It also has 8 smaller size holes with set screw so that you can tap off the power to various points. This 3.3" L x 2.4" W x .72" Thick plate weighs over 1 1/2 pounds. Has 4 threaded holes in bottom for mounting. These are brand new, heavy gold plating but may have slight surface scratches from being shipped in bulk.

**G13188 \$12.00 ea.**



## "F" to RCA Adapter

Handy adapter has a female "F" connector on one end and a male RCA plug on the other. Size is about 1 7/8" (L). Excellent quality heavy duty unit.

**G9726 \$1.00 ea.**



## "F" to RCA Adapter

Handy bulkhead type connector adaptor has female "F" type connector on one end and female "RCA" type connector on other end. Very useful for hundreds of applications. These are precision chrome plated high quality types with panel mounting nut and washer.

**G6644 \$1.00 ea.**

**10/\$5.00 • 100/\$35.00**



## BNC Straight Connector DS-3/4

### Interconnect Type 735 Coaxial Cable

This crimp on BNC connector is type 2025-96-7 and is approved for SBC use. Made by Kings Electronics, these are in factory sealed bags with instructions printed on the bag.

**G13894 \$1.00 ea.**

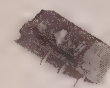


## WECO Screw Connector Terminal Blocks for PC Boards

High quality screw connector wire terminal blocks for PC boards feature 3 poles per block. Accepts wire from 26 gauge up to 14 AWG. Rated 300V 20amps. Type 941-T-DS/03 by WECO is grey in color .6"L x .49"W x .47"H. Center to center spacing is .2" and each block can be interlocked with each other to form any size block you desire. Each block has 3 pins that are soldered into your PC board. Prime made in Canada. These cost over 50¢ each from other distributors.

**G12942 5 blocks/\$1.00**

**G12942A Factory Box of 250 for \$40.00**



## Copper Clad

### Copper Clad

Prime double sided copper clad glass epoxy material for making PC boards. Available in .026" thickness only.

**.026" Thick**



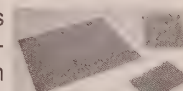
Size	Stock#	Ea.	10 for
3x4	G2622	\$0.39	\$3.50
3x6	G2624	\$0.55	\$5.00
4x8	G2626	\$0.95	\$9.00
4x10	G2628	\$1.20	\$11.00
5x8	G2630	\$1.20	\$11.00

Size	Stock#	Ea.	10 for
5x10	G2632	\$1.50	\$14.00
6x7	G2634	\$1.60	\$15.00
6x12	G2636	\$2.15	\$20.00
8x10	G2638	\$2.40	\$23.00

## Super Copper Clad Assortment

Our best assortment ever. Contains 25 pieces of various small size copper clad circuit board blanks. Each is double sided. Thickness is .026". Minimum size 2" square. A PC board makers delight.

**G2679 \$5.00**



## Crystals

### Resonators by Murata

455KHZ ceramic resonators for RF circuits made by Murata. These are prime new branded units. 455E.

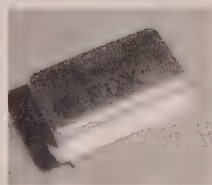
**G5066 4/\$1.00**



## 50.000000MHZ Precision Crystal Oscillator

We made a special purchase of these 100% prime 50.000000MHZ 5VDC metal case crystal controlled oscillators made by Fox. Brand-new fully marked requires only + 5VDC and ground to operate. Has 4 pins which may be slightly bent from being shipped in bulk to us (it only takes a couple of seconds to straighten them out). Blowout price!

**G13110 4/\$1.00**



## Crystal Oscillators

We have a huge selection of these prime metal case crystal oscillators. Each requires only 5VDC to operate. These are highest quality types made by famous manufacturers such as Dale, Fox, M-TRON, CTS, etc. Simple to use, great for replacement or new construction. Sorry - no spec sheets available. All are branded and frequency marked.

Stock#	Frequency	Stock#	Frequency
G6194	4MHz	G5155	32.000000MHz
G7136	9.600MHz	G6934*	36.000MHz
G7602	12.000MHz	G7598	40MHz
G7139*	14.400MHz	G5157	40.000000MHz
G5143	18.4275MHz	G7142	48.000MHz
G5146	18.870MHz	G5158	50.000MHz
G5147	19.6608MHz	G7775	55.80000MHz
G5148	20.000MHz	G6189	56.666MHz
G7603	20.2MHz	G6190	62.955MHz
G7604	22MHz	G7143*	64.00MHz
G5149	22.118400MHz	G7611	64.000MHz
G5150	24.000000MHz	G6935*	66.666MHz
G7140	25.000000MHz	G6198	69.251MHz
G7597*	32.0000MHz	G7614	80.000MHz

\* Square Case

YOUR  
CHOICE

**\$1.00 ea.**

PIN #	CONNECTION
1	N/C
7	GND
8	OUTPUT
14	+V <sub>o</sub>





## Sony Tiny Precision Crystals

We have 2 values of these tiny crystals. Each is fully marked. Size about .42" L x .18" W x .13" H. Has long leads on tape and reel. 10MHZ (10AKSS2AT).

**G13554 69¢ ea.**

## 1.000MHz Oscillator

Precision oscillator operates on 5VDC and produces a stable 1.000MHz signal. Only 4 leads to connect (5VDC in, and 1.000MHz out). Size only 3/4" x 1/2". Prime metal case unit.

**G8160 \$1.00 ea.**

**10/\$8.00 • 100/\$75.00 • 1,000/\$600.00**

## 10MHz Tiny Crystal

Tiny metal can crystal is only 0.39"L x 0.18"W x 0.13"H. Has radial leads on tape & reel. Marked RXD10.0. Brand new-Blowout price!

**G14469 10/\$1.49**

## Quartz Crystals

We have just received a large shipment of prime crystals from a cellular phone, pager and communications equipment mfg. A government contract ended and you can buy these at a fraction of their cost.

Tiny Mini Standard



Stock	Frequency	Case	Price	Stock	Frequency	Case	Price	Stock	Frequency	Case	Price
G5162	1.8432MHZ	B	\$1.00	G3834	5.0688MHZ	B	\$1.25	G3842	16.000MHZ	B	\$1.50
G6192	2.097152MHZ	C	\$1.00	G5169	5.7143MHZ	B	\$1.00	G3843	17.064MHZ	B	\$1.25
G3828	2.4576MHZ	C	\$1.00	G619	6.02128MHZ	C	\$1.00	G3845	19.6608MHZ	A	\$1.60
G6191	2.868MHZ	B	\$1.00	G5171	6.4512MHZ	B	\$1.00	G3846	20.000MHZ	A	\$1.75
G5164	2.88MHZ	C	\$1.00	G5172	6.500MHZ	B	\$1.50	G5179	20.000MHZ	B	\$1.50
G614	3.579545MHZ	C	\$1.00	G3836	8.000MHZ	B	\$1.50	G7591	22.5790MHZ	B	\$1.25
G615	3.579545MHZ	B	\$1.00	G7600	8.000MHZ	A	\$1.50	G6187	24.000MHZ	A	\$1.25
G3832	4.000MHZ	B	\$1.50	G3837	10.000MHZ	B	\$1.50	G7147	24.000MHZ	B	\$1.00
G616	4.194304MHZ	C	\$1.00	G3838	10.800MHZ	A	\$1.60	G7148	25.000MHZ	B	\$1.00
G3833	4.500MHZ	A	\$1.75	G3839	11.000MHZ	B	\$1.50	G6193	28.000MHZ	A	\$1.25
G7617	4.9152MHZ	A	\$1.25	G3840	12.000MHZ	B	\$1.50	G7616	32.000MHZ	A	\$1.25
G7590	5.0MHZ	C	\$1.50	G5174	14.085MHZ	B	\$1.00	G7592	32.000MHZ	B	\$1.25
G5168	5.034963MHZ	B	\$1.00	G6186	14.31818MHZ	A	\$1.25				
				G3841	14.7456MHZ	A	\$1.60				

## Displays

### PowerTip PC1202-A LCD Display with Backlight and Controller

Compact 24 character display board is only 2 3/16" L x 1 1/4" W yet it has built in LCD controller, segment driver, backlight with a 2" x 7/8" LCD display area. Operates on 5VDC and has contrast adjust, backlight and standard data bus lines. See internet for details. These are standard easy to use and implement displays—great for your next PIC project. Displays 24 characters of your text at a time on 2 lines (12 each line). Features 3 3/4" long ribbon cable with 16 position (2 rows of 8) female header for hookup. Brand new—see data on internet for details.

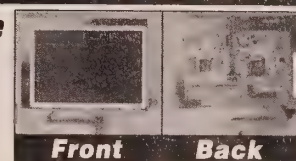
**G13745 \$7.95 ea.**



### Sony® ACX705AKM Color LCD Module

SonyACX705AKM 6.92cm diagonal reflective color LCD module. This 512 colors LCD color module is brand new and is made for PDAs. Features an active matrix thin full color reflective TFT-LCD module with built in bright front light unit and driving board. The module provides low power consumption which is realized by built in 3-bit digital interface circuitry. Total number of active dots = 115,200. Module dimensions 71.4mm x 52.0 mm x 4.8mm (parts area 6.55 mm tall max). Effective display dimensions 57.6mm (H) x 38.4mm (V). Has 22 pin (.5mm spacing) flex cable with gold plated fingers. Great for all types of miniature full color displays. See complete specs on internet! Brand new and worth over \$88 each.

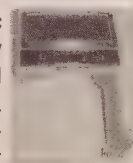
**G13752 \$19.95 ea.**



### LCD Display with Green Backlight

Small LCD display mounted in a plastic enclosure. The background of these glow green when power is applied to the small flexible connector. Sorry, no info or data except we were told these came from Lucent. Overall size of plastic housing about 1 7/8"W x 1 3/8"H. New but absolutely no info.

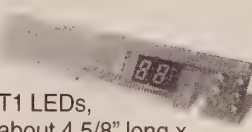
**G2294 \$1.00 ea.**



### Unique Display Board

Made by Dialight part# 5610006-803, this display board features a dual 7 segment green display, 4 green T1 LEDs, and 3 yellow T1 LEDs. Size about 4 5/8" long x 15/16" tall. The board has "LinkBuilder" printed on it, however we have no other data. Brand new.

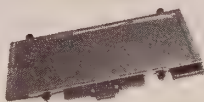
**G14281 \$1.49 ea.**



### Large Graphic LCD Display

Large 640 X 200 B.W. Graphic LCD Display. Made by Epson part #P3000 13100, these were made for an IBM laptop computer. They feature a 20 pin edge connector, various IC's, a 10.8" x 4" active area and a slide port for contrast control. These are brand new in factory packaging. They are similar to the Epson EG7001. Prime - Top quality. Sorry, no info or hookup diagram available. Blowout Price!

**G14876 \$1.99 ea.**



### HP Tiny Bargraph 5 LED Strip Display HLMP-6675

Consists of 5 matched bright red LEDs on a strip only. 0.5"L x 0.11"H. Has 10 leads. Each LED has a diffused red dome lens. Each LED operates from 2.8VDC. Great for level meters, small battery power meters, audio strength meters, etc.

**G14257 2/\$1.00**



### Bright Green Clock Display

Bright green common anode LED clock display type AND4145G. Size of digit is about 1/4" tall. Overall size of display is 1 3/8" L x 7/16" H. Has 24 pins and features 4 digits plus center colon.

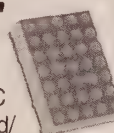
**G12804 \$1.00 ea.**



### Moving Dot Display Spectacular

Prime and brand new! Multicolor type lights up red or green on each dot depending on DC polarity or yellow when AC is applied. Part# LTP1257AA. Color: Red/Green/Yellow. Array 5 x 7. Size: 1 1/4" x 7/8"

**G1641 \$1.00 ea.**



### Giant LED Dot Display

This is the largest dot display we have ever seen! The giant 5 x 7 dot display is an incredible 3" x 4 1/16" in size. Each dot is 3/8" in diameter and each dot lights up a brilliant green. Make colorful displays, moving message signs, etc. that can be seen from great distances. Prime made by LITEON part # LPTL4255AGBW2.

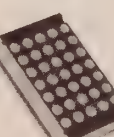
**G7684 \$10.00 ea.**



### 5x7 Red Dot Display

LPTL12157ACBK1. The color is bright red and the overall size is 1 1/2" tall x 7/8" wide. Dot matrix 14 pins.

**G7705 \$1.50 ea.**



### SUB-CUB 1000 Complete 6-Digit Counter

Made for use in vending machines, copiers, flow meters, test equipment, portable instruments, etc., the SUB-CUB made by Red Lion Controls has a built in LSI counter chip and 6 digit display. It has a compact LCD type self contained counter. The overall size of the module is 1.045"L x .67" H. It features six .2" high digits and can count at rates up to 500kHz. The ultra low power requirements are only 5VDC at 15µA. The latchable display with the separate reset function permits these counter modules to be used as frequency or rate meters, timers, phase angle or pulse width indicators and for other complex readout requirements in addition to simple high speed counting. Uses a snap-mount to directly mount to your PC board (electrical connectors are made with elastomeric connectors that are part of the module). These are brand new—see Red Lion web site for more technical details.

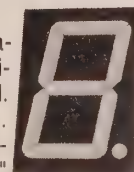
**G12838 \$5.95 ea.**



### Giant Common Anode Red 7 Segment Display

Type LTS23805E-NB by Liteon features 7 segments plus right hand decimal. Digits are 2.3" (57mm) bright red. Can be seen from great distances. Has 10 pins on back of display for connection. Overall size of display is 2.75" x 1.89" x 0.47". Brand new! Manufactured by Liteon.

**G15125 \$2.49 ea.**

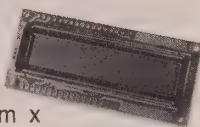




## Seiko L1671 LCD Character Module Display

Reflective type LCD 1 x 16 character display by Sieko. Size of display board 36mm x 80mm. Size of each character 6.56mm x 3.07mm wide. Check internet for pin out information. Brand new with gold plated pads on circuit board for connections.

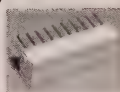
**G14881 \$2.99 ea.**



## Multicolor HP Bargraph Display

Beautiful 10 segment bargraph features a multicolor display. HP# HDSP4836. The first 2 segments are bright red, the next 2 are bright yellow, the next 2 are bright green, the next 2 are bright yellow and the final 2 are bright red. Brand new prime. About 1" long x 3/8"W.

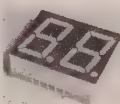
**G9314 \$1.49 ea.**



## Dual Green 7 Segment Display

Type LN526GA bright green 2 digit display. Common anode type with .57" high digits. Size of display .98" L x .75"H. Has 2 right hand decimal points.

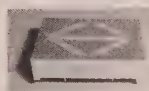
**G13002 \$1.00 ea.**



## Large Arrow Display

Bright yellow arrow display can be made to display right or left going arrows (or up or downward pointing). Type LTS1083G. Size about 1 5/16" x 7/8". Brand new!

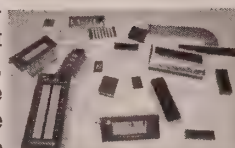
**G9848 \$1.00 ea.**



## Giant Display Assortment

All kinds of quality displays including LCD, Bargraphs, Dot types, LED Bars, fluorescent, etc. These are all 100% prime although sometimes a face may have a slight scratch due to packaging them together in bulk, but this in no way effects the appearance when operated. All are brand new! Giant assortment of 25 pieces.

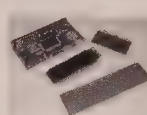
**G9877 \$5.00**



## LCD Display Assortment

Assortment containing 4 different LCD displays or modules. Great for experimenting /learning about LCD displays. All prime—but no specs or data

**G8762 \$2.00**



## HP Green 10 Segment Bargraph Display

Bright green high quality 10 segment bargraph display is perfect for audio or power level meters. Type hp 3489 is about 1" long x 3/8" wide. Long wire leads! Prime.

**G8942 \$1.25 ea.**



## Kingbright Bright Green 4 Digit Display

Type CA36-21SGWA-RD42 has 12 pins and features 4 bright green 0.38" high, 7 segment displays. Multiplex type display is 1.16"L x 0.55"H.

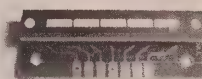
**G13843 \$1.00 ea.**



## Bright Red/Green Moving Bar Display

Small 1 5/8" long display features 3 bright green bar segments and then 2 bright red bars (left to right—5 total). Part # TLM8051.

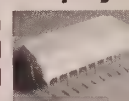
**G4287 2/\$1.00**



## HP Two-Color Brilliant Bargraph Display

This is the model QDS3-W997 bargraph display by HP that consists of 10 red LEDs and 10 green LEDs in a beautiful brilliant display. Great for bargraph use in audio level, battery power, temp displays etc. Brand new. Approx. size 1" L x 9/16" W x 3/16" H. Has 14 pins total (but does not fit in a 14 pin IC socket).

**G13743 \$2.49 ea. • 10/\$19.00**

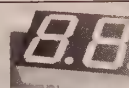


## Hewlett Packard BrightYellow Dual Display

Type QDSP-K347 dual 7 segment display features 2 common anode 9/16" high segments with right hand decimals. These are brand new, optically and electrically prime, however the displays were removed from their protective shipping tubes and shipped to us in bulk so the pins on the displays may be bent and a few displays may have slight scratches on them from the way they were shipped to us. These very bright, high quality displays can be purchased from us at a fraction of what HP charged for them!

**G4031 4/\$1.00**

**G4031A 100/\$22.00**



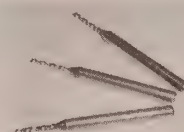
# Drill Bits

## Solid Tungsten Carbide PC Drill Bits

We just received a quantity of these re-sharpened solid tungsten carbide drill bits that are designed for drilling thousands of holes in PC boards. Each has standard 1/8" shank and razor sharp points.

Stock #	Size	Decimal		Price
G1915	58	.042	*Small	\$1.00
G1916	55	.053	Medium	\$1.00
G1917	53	.059	Large	\$1.00

\*Common bits for 1/4 Watt resistor leads, etc.



## Router Bit Assortment

Handy assortment of three different router bits for PC boards. Used, but perfect condition.

**G961 \$2.00**



# Fans

## Fan Blowout

We just made a large purchase of thousands of fans and we are passing the savings on to you! You'll find fans in all popular voltages and sizes. Hurry - some of the quantities are limited. Any additional information that we know is listed in the "other" column.

Manufacturer	Manuf. Part#	Voltage	Current	Size	RPM	CFM	Leads	Other	Stock#	Price
NMB	2408NL-04W-B30	12VDC	0.11A	60mm <sup>2</sup> x 20mm	4200	27	2	DC Brushless	G13333	\$1.99
NMB	3110KL-04W-B50	12VDC	0.30A	80mm <sup>2</sup> x 25mm	3250	39	2	FG, DC Brushless	G13341	\$3.75
Sunon	KD1209PTB2	12VDC	2.2W	92mm <sup>2</sup> x 25mm	2600	48.5	2	BB	G13345	\$2.75
Alectron	924-3012	12VDC	-	92mm <sup>2</sup> x 25mm	N/A	30	2	-	G13347	\$2.50
Comair Rotron-Muffin XP	MS24S3H / 039002	24VDC	0.4A	120mm <sup>2</sup> x 38mm	3400	110	3	FB, TS, DC Brushless	G13354	\$4.95
Alectron	124-6024	24VDC	-	120mm <sup>2</sup> x 38mm	N/A	60	2	-	G13355	\$3.50
Comair Rotron-Sprint DC	ST4857H / 03922	48VDC	0.14A	80mm <sup>2</sup> x 32mm	3400	33	4	FB, TS	G13356	\$3.50
Comair Rotron-Galaxy DC	GL48S7H / 031692	48VDC	0.31A	127mm <sup>2</sup> x 38mm	3250+	150+	4	BB, FB, TS	G13357	\$9.95

KEY: FB=Factory Box, BB=Ball Bearing, SB=Sleeve Bearing, TS=Thermal Sensor, FG=Fan Guard Attached



## Ultra Thin 5VDC Panasonic Fan

This fan is only 1/4" thick x 1 3/4" square. It was designed to cool microprocessors and has a metal bottom surface and side exhaust. Type UDQFC4E09 DC brushless fan by Panasonic requires 5VDC @ .15amp. Brand new!

**G4509 \$3.95 ea.**



## Our Smallest 5VDC Fan!

This is probably the smallest practical cooling fan made. Type C34427-55 by Nidec is only 1" square x 7/16" thick. Has Flexible color coded leads and requires only 5VDC @ 90ma to operate. This can be used for hundreds of cooling projects! Brand new!

**G2232 \$2.95 ea.**





### 60MM 12VDC Fan

Made by Mechatronics, this fan requires 12VDC @ .15 amp and has a 20 CFM air output. Has color coded flexible leads. Size 60mm (2.35" square x 1" thick). Brand new. Model A6025H12D.

**G13229 \$2.49 ea.**

### High Output Delta Fan 80mm 12VDC Fan

Delta/Fonsan model AFB0812H ball bearing fan is rated 12VDC @ .50amp. Has long flexible color coded leads and a 7 blade fan for maximum cooling. RPM 3250 CFM 37.43. Noise only 34 dba. Size 80mm sq. x 25.4mm thick. Brand new.

**G13143 \$2.95 ea.**

### Sunon 92mm 12VDC Fan

High output 92mm fan is rated 2700 rpm and 49 CFM with a noise rating of 34.5 dBA. Has two flexible color coded leads. Rated 2.8W. Type KDE1209PTB1-6

**G13992 \$3.49 ea.**

### 12VDC Fan

This 3 5/8" sq fan is 1" Thick and features a 7 blade fan rotor for great air cooling. Requires only .12 amp a 12VDC. Made by Superred model # CHA9212AB. Brand new with color coded leads.

**G1982 \$3.49 ea.**

### Comair Rotron 90mm 12VDC Fan

Model FN12B3RDN fan by Comair Rotron features 7 blades and .31Amp current rating. Has 3rd lead for notification of operating status. Brand new - High output. Size 90mm square x 25.6mm thick.

**G13727 \$2.95 ea.**

### Sunon 92mm 12VDC Fan

Type KDE 1209PTB3-6 features operation from 12VDC, speed indication third lead, an rpm of 2300 with a CFM of 41 and a noise level of 30dBA. Rated 1.6W.

**G13993 \$3.75 ea.**

### Mini Fan Blowout

We just received a large quantity of these very efficient brushless mini fans for cooling all types of equipment. Brand new, Super efficient, quiet fans. All are the popular brand "IC Fan"® by Shicoh. High quality made in Japan.

	Value	Size	Stock#	Price
Type 1	12VDC @ .11AMP	1 9/16" Sq. x 13/32" Thick	G4086	\$1.35
Type 2	12VDC @ .22AMP	3 1/8" Sq. x 3/4" Thick	G4088	\$1.75

### Sunon® 80mm 12VDC Fan

Brushless 12VDC fan features a 1.4Watt rating. Model # KDE1208PTS3-6 features red & black leads with standard three position female connector (only two positions are used), sleeve bearing. Size 80mm (3.16")sq. x 25mm (1"). Rated air flow 50, 1 m³/h. Noise -25dBA.

**G14807 \$2.49 ea.**

### Delta 60mm Size UltraThin 12VDC Fan

Type EFB0612HHA ball bearing fan by Delta features a 60mm sq. size x 10mm thickness. Operates on 12VDC@0.250 Amp and features a fan speed of 4800RPM with an air flow of 21.19 CFM. Noise is only 36.5dB-A and this fan includes the "blue" speed sensing lead. New!

**G13945 \$2.49 ea. • 10/\$18.00 • 100/\$150.00**

### Delta 50mm 12VDC Fan

#### EFB0512HA

High speed 50mm (1.97") sq. x 10mm (0.41"). Fan features 7 blades and ball bearings for reliable performance. Speed is 5,500rpm and output is 11.40CFM. Noise is only 30.0dB-A and will operate from 7-13.8VDC at 0.15Amp. Brand new. Blowout price!

**G14674 89¢ ea.**

### SPECIAL!

### Super Power 120mm Sanyo Fan 12VDC San Ace

Large 120mm (4.72") x 38mm (1.5") fan by Sanyo cranks out. Speed is 2600rpm and noise is 39 dBA. Brand new with 3rd lead for sensor output.

**G14010 \$5.00 ea.**

### Maxair 60mm Brushless Fan

#### Type MXF-D6012HB-A71GL

Nice Quality 60mm (2.36") x 25mm (1") Thick fan has 3 leads (2 for power and sensor lead if desired). Operates on 12VDC@0.23Amp and features standard 3 pin female header connector. Factory new!

**G14540 \$1.49 ea.**

### 90mm 12VDC Elina Fan Model KDA120925H

Brushless fan by Elina is 90mm (3.6") sq. x 25mm (1") thick. Operates on 12VDC @ 220mA and produces a large amount of cooling. Reliable Elina quality. Has long red & black power leads. Model# KDA120925H

**G14672 \$1.49 ea.**

### 12VDC Miniature Fan

Small fan to cool your hot microprocessor operates on 12VDC and is only 1 9/16"sq. x 3/4" thick. Provides efficient cooling (only requires 100ma). Can even be operated from a 9V transistor radio battery! Brand new prime. Delta Electronics model DBF0412H.

**G1472 \$1.99 ea.**

### 12VDC 120mm Delta Fan (Case of 18)

This Delta Model AFB1212VHE fan can really move a lot of air. It's rated 129.96 CFM, maximum air pressure 10.70mmH2O, 3200 RPM, and 48 dBA. Size: 120mm (4.724") square x 38mm (1.496") thick. Has flexible red and black leads terminating in a standard 2 pin female header for power hookup. Operates on any voltage from 4 to 13.2VDC and at 12VDC it draws 0.60Amps. These are brand new and are advertised elsewhere for up to \$25.00 ea. We are offering these fans at a blowout price of only \$1.67 ea. when you buy a factory case of 18 fans. Sold in whole case increments only. 1 case = 18 fans.

**G14960 \$29.99 per case of 18**

One 12VDC 120mm Delta Model AFB1212VHE fan.

**G14959 \$3.49 ea.**

### Super Efficient 12VDC Fan

Super efficient cooling fan made by Nidec Beta V model# TA300DC A33245-16. Features low current draw of only 120ma and great air flow. Size: 3 3/16" sq. x 3/4". Prime with flexible wire leads & connector.

**G6766 \$7.50 ea.**

### NMB 12VDC Boxer Fan®

Type 4710NL-04W-B50 by NMB features 12VDC .74amp operation. Ball bearing type brushless fan is 4 3/16"sq. x 1" thick. Has long color coded insulated wire leads. Brand new.

**G4510 \$4.95 ea.**

### Small 12VDC Fan with Sensor

Type AO410N-12V fan by Shicoh is only 40mm (1.59") sq. x 10.4mm (0.41") thick. Has flexible power leads + one for sensor. Operates on 12VDC @ 0.09Amp.

**G14388 99¢ ea.**

### Papst RG90-18/12N/19 12VDC Biscuit Fan

Large high air flow volume biscuit type fan made by Pabst. These are about 5 5/16" sq. x 1 1/2" thick and feature heavy duty construction, flexible wire leads and an alarm lead for use to indicate fan malfunction. Biscuit type provides large volume of air flow! Brand new, heavy duty and highest quality. Operates on 10 to 15VDC. Rated 580ma at 12VDC.

**G9817 \$5.95 ea.**

### NMB 12VDC Boxer® Fan 120mm Model 4710NL-04W-B30

Ball bearing brushless 12VDC fan quietly moves a good volume of air. Rated 80 CFM, 35dBA, this fan is very high quality. Size 120mm sq. (4.73") x 25mm (1") thick. Worth over \$14 each. Brand new with full length 12" red & black leads. Operates from 12VDC @ .32Amps.

**G14802 \$4.99 ea.**

### 24VDC/0.07a Mini Fan

Brand new mini fan by VPPV model # AD0424HB-670. Operates on 24VDC at 0.07A. Has 4" long flexible wires with connector. Size 1 9/16" square x 3/8" thick.

**G7559 \$4.00 ea.**

### Alectron 24VDC 32CFM Fan

Small 3 1/8" x 15/16" fan by Alectron puts out 32CFM. operates on 24VDC and has flexible power input leads. Brand new - Alectron part # 804-3224.

**G2285 \$3.25 ea.**

### Alectron 24VDC 39CFM Fan

Brushless fan by Alectron features 39CFM output and size of 3 5/8" x 1". Brand new - Alectron part # 924-3924. Has color coded power leads.

**G2287 \$3.49 ea.**



## Fans- 24VDC

**ELECTRONIC  
GOLDMINE**

### Alectron 24VDC 80CFM Fan

Large 4 3/4" x 1" fan features 24VDC brushless motor and flexible color coded leads. Output is 80CFM. New! Alectron part # 125-8024.

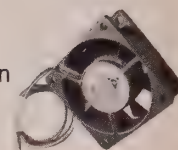
**G2289 \$3.98 ea.**



### DFB0624H Delta 24VDC Fan

Nice 60mm sq. x 25mm thick cooling fan by Delta, operates on 24VDC @ 0.11 Amp. Features color coded flexible leads.

**G14074 \$1.79 ea.**

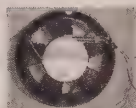


## Fans- Large/High Voltage

### Comair Rotron Giant 48VDC Fan

Large 6 3/4" dia. fan, Patriot Model PD48T7H features 5 large metal blades, temperature sensor to automatically increase speed and monitor lead. All metal frame and heavy duty construction for trouble free performance. Brand new!

**G2227 \$6.95 ea.**



### Alectron 220VAC Fan

Small 3 1/8" square x 1 1/2" deep that operates on 220V or 230VAC 60Hz. Puts out 20CFM at 220VAC or 30CFM at 230VAC. Brand new with flexible wire leads. Model 801-2626.

**G2288 \$4.98 ea.**

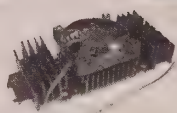


## Fan/Heatsink Combos

### 12VDC Fan/Heatsink Combo

Efficient 50mm square x 10mm thick fan is mounted to a 136mm (L) x 50mm (W) x 25mm (T) black anodized aluminum heatsink with a large quantity of fins for efficient cooling. Heatsink has predrilled holes for easy mounting in your cooling application. The fan operates on 12VDC and has two 7" leads terminating in a female header. Blowout price! Used- good condition.

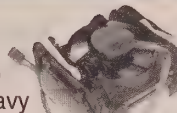
**G13270 \$2.95 ea.**



### Giant Intel Fan/Heatsink

Consists of a 12VDC .21amp 95mm x 72mm fan assembly mounted to a 35mm (High) x 95mm x 72mm heavy brushed aluminum heat sink. Has a black thermal transfer square on the bottom which is 40mm square and has plastic clamps that were made to lock onto mother board. Made for Intel by Sanyo Denki. Has 3 lead cable with female connector (for 3 pin male header). In antistatic box.

**G12937 \$12.95 ea.**



### 12VDC CPU Cooler/Fan

Small 40mm(1.59") sq. x 10mm (0.43) Thick 12V fan is attached with four screws to a 40mm x 13mm black anodized heat sink. If you don't wish to cool a CPU with this just remove the four screws and you have a brand new miniature fan! Unbelievable price! In factory box with hardware. Prime- High quality at a blowout price!

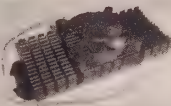
**G14671 99¢ ea.**



### 12VDC Fan/Heatsink

Large 5 1/2" x 2" black anodized aluminum heatsink with 12VDC fan attached for superior cooling of CPU and other electronic devices. Brand new in box. Has flexible wire leads with female connector attached. Operates on 12VDC.

**G13557 \$3.95 ea.**



### CPU Cooler Fan/Heatsink

Model 5180 CPU Fan heatsink features a ball bearing 12VDC fan and attractive blue metal crosscut 50mm square heatsink. Has convenient metal clip design for secure mounting. Work with Z1F sockets. Efficiently reduces CPU operating temperature. Brand new - assembled in U.S.A.

**G13407 \$2.95 ea.**

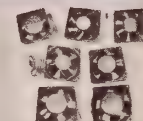


## Fan Assortments/Assemblies

### Super DC Fan Assortment

Prime assortment of 7 different DC fans. Voltage range can be from 12VDC to 24VDC with various current requirements. Sizes will range from 60mm<sup>2</sup> to 80mm<sup>2</sup> or larger. All fans are new and ready for your cooling projects! Hurry - Limited time offer. Assortment of 7 fans.

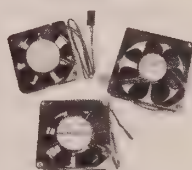
**G13365 \$9.95**



### 12VDC Fan Assortment

Prime assortment of 3 different DC fans. All fans are 12VDC and can range in size from miniature to 80mm<sup>2</sup> size. All fans are brand new. Blowout Price! Assortment of 3 fans.

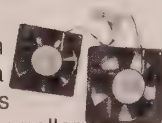
**G13358 \$5.55**



### Assembly of 2 Fans, 12VDC Brushless

Assembly of 2 fans connected to a six pin connector. Each fan has 3 leads (2 for power & 1 sensor lead). The larger fan is a 120mm (4.7") x 25mm thick (1") ball bearing type by Mechatronics part# E1225E12B1. It operates on 12VDC @ 0.50 amp. The smaller fan is a 90mm (3.6") x 25mm thick (1") ball bearing type by Mechatronics part# E9225x12B1. It operates on 12VDC @ 0.55Amp.

**G14385 \$4.95 ea.**



### Miniature Fan Assortment

Prime assortment of 3 different miniature brushless fans designed to cool microprocessors or cool compact electronic devices, all of these fans operate on 12VDC but with various current requirements ranging from 70ma up to 170ma. Size about 1 1/2" sq. x 13/32" thick and up to 25/32" thick. Assortment of 3 fans.

**G1775 \$2.98**



### Fan Assortment

We have various small fans that we have too small quantities to advertise. We have grouped 3 of these together in an assortment. Assortments will vary but each will contain fans in the 5VDC to 12VDC range. Tiny types and small fans-but none larger than 5". All 100% prime, brand new. Assortment of 3 fans.

**G1300 \$6.00**



## Ferrite/Toroids

### Medium Ferrite Core (Toroid)

These are prime ferrite cores made by Nippon Ferrite LTD. Size is 1" outer diameter x 5/16" thick with an inside diameter of 1/2".

**G6683 5/\$1.00**



### Ferrite Bars

We have 2 sizes of these prime ferrite bars.

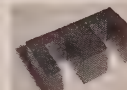
Length	Stock	Price
9/16" x 1/8"	G8905	5/\$1.00
1 13/32" x 3/16"	G8901	3/\$1.00



### Large Ferrite "E" Cores

Ferrite "E" shaped core is about 1 5/8" L x 3/4" high x 5/8" thick. Perfect for making custom transformers or filters.

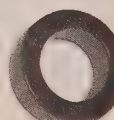
**G4295 4/\$1.00**



### Giant Toroid 3"Dia. x 1"

Giant powdered iron ferrite toroid for high power applications is 3" in diameter by 1" high by .55" thick. It is green with one blue surface. this toroid is very massive and is brand new- Ready for you to add your windings.

**G15269 \$4.99 ea.**





### Fiber Optic Photo Detector With Logic Output

Made for high speed digital data links, video links, LANS, automotive electronics, robotics, etc. This features fast response times and mates with 1000µm core, plastic fiber cable. Contains a built in micro lens for efficient coupling. Can drive up to 5TTL loads over supply voltages of 4.5V to 16V. Features 3 leads at bottom (ground, +V, output) and has screw on locking nut for optical fiber. Prime - made by Motorola.

**G14272 \$1.99 ea.**



### Fiber Optic Display Bundle

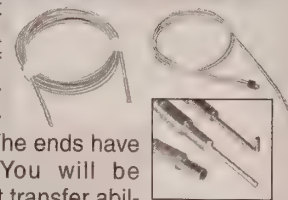
Bundle of various length plastic fiber optics made for a multicolor light display. We didn't receive the light unit but we did get the fiber optic bundles that consist of about 70 small diameter plastic fibers cut at various lengths from about 3/4" up to about 8" long. The bundle terminates into a small metal crimp fitting which is where a multi colored light was to be connected. We placed one of our bright bi-polar LEDs next to the fitting and in a darkened room the end of each of the fibers glowed beautifully. Great experimenter item!

**G1134 \$2.95 ea.**



### Flexible Fiber Optic Light Pipes

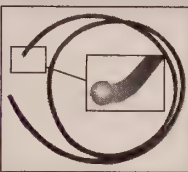
These metal light pipes consist of a large quantity of optical fibers enclosed within a flexible metal tubing. The ends have been polished. You will be amazed at the light transfer ability of these units. We have several assorted types, each will have one end that is a threaded coupler, however, the other end may have a variety of specialized fittings (right angle, point source, etc.). We have 2 length ranges. Sorry, no choice of ends or specific lengths. Each one is worth many times our low price.



Length	Stock#	Price
1.75 - 4 ft.	G13866	\$10.00 ea.
4 - 10 ft.	G13867	\$15.00 ea.

### Large Diameter Fiber Optic Pipe

This 34" long flexible fiber optic cable can really transfer light. It has an 0.18" dia. black outer covering and an internal clear plastic fiber which is 0.04" in dia. (much thicker than most fiber optics).



**G14714 99¢ ea.**

### Battery Powered

#### Colorful Fiber Optic Wand

Small 5.7" long holder features a bundle of various length fiber optic strands, the longest being about 7". The holder accepts 2 AA batteries (not included). When the switch is turned on, the fibers produce a beautiful display of colors! Brand new in retail bag.

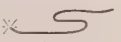
**G14729 \$1.49 ea.**



### Fiber Optic Strands

Small diameter unjacketed fiber optic strands. Perfect for thousands of applications. Fun to use and experiment with. Length of each strand is 3ft.

**G755 5/\$1.00**

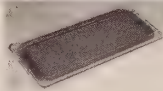


## Filters

### EMI Shielded Display Window

Very unique item from a government contract is a EMI shielded see through window. This was meant to allow a person to view displays without EMI energy effecting them. These are brand new made by Tecknit and come in a sealed mfg. bag. Size is slightly smaller than 1" x 2". Has see through metallic grid with silver plated frame around inside surface of glass to allow electrical connection to ground.

**G8677 \$2.00 ea.**



### Super AC Entry Module Assortment

Assortment contains 3 different power entry modules. You'll find only major brands such as Corcom, Delta, Schaffner, etc. All are brand new prime with full specs and part numbers printed on them. All feature on/off switch, a standard 3 prong connector for business machine cords. With this set you should have the correct replacement when needed.

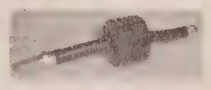
**G14227 \$5.00**



### Filter Cable

5 1/2" Long filter cable features one female "F" connector and one RCA connector. Cable passes through a 1 1/4" ferrite toroid. Entire cable is encased in rubber. Made for cable TV, video games, and related applications. Brand new, prime!

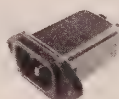
**G1358 \$1.00 ea.**



### Delta Electronics AC Input Module

Accepts standard 3 slot business machine cords. Has EMI filter rated 3 Amp 115/250VAC 50/60Hz. Has panel mounting ears. Type 03DEEG3E. Brand new.

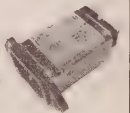
**G14757 \$1.49 ea.**



### Corcom 10EEA1 AC Input Module

Features standard connector for business machine cords. Built in RFI/EMI filter rated 10Amp 120VAC 50-60Hz. With mounting ears for chassis mount. Brand new. Regular price over \$6.00 each.

**G14698 \$3.49 ea.**



## Fuses, Fuseholders & Breakers

### Buss MDV Slow Blow Fuse

Axial lead high quality fuse by Buss. Standard size glass and metal body with pigtail leads. Value rated at 2Amp @ 125V.

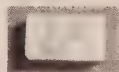
**G14356 10/99¢**



### 3Amp SMD Fuse

Made by Littlefuse® this 3Amp 125V fuse is designed for SMD mounting. Size is only .29" L x .16" W. Fully marked. Has 2 solder pads for SMD mounting.

**G13655 2/\$1.00**



### Tiny Pico fuses

Small axial lead Pico fuses by Littlefuse®. Each has full length leads as is marked with its value. We have the following values.

Value	Stock#	Price
1/2 Amp	G13627	4/\$1.00
1 Amp	G13633	4/\$1.00
2 Amp	G13635	4/\$1.00
3 Amp	G13637	4/\$1.00
5 Amp	G13639	4/\$1.00

### PC Board Mini Fuseholder

High quality fuseholder for miniature fuses holds up to a 7/8" long fuse. Made for PC board use and features standard solder tabs for PC board mtg.

**G8558 5/\$1.00**

**G8558A 100/\$12.00**



### Standard Fuseholder Blowout Sale

Standard black case panel mounting fuseholder for all standard size fuses (2AG etc.). High quality unit with twist off cap, panel mount nut and washer. Has solder terminals for hookup. Rated max 15AMP 125VAC.

**G1481 2/\$1.25**



### Inline Fuseholder

Inline fuse holder for standard fuses comes with a 20Amp fuse installed. Simply cut wire, install in series with one power lead of device to be protected and you're ready to go. Prime-heavy duty!

**G7334 \$1.00 ea.**



### 1/2 Amp Pico Fuse

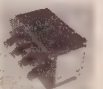
Tiny axial lead fuse is the same size as a 1/4Watt resistor. Prime long lead fully marked units made by Pico Inc.

**G12999 4/\$1.00**

### Unique DC Actuated 15amp Circuit Breakers Made by Carlingswitch

Consists of three 15amp circuit breakers and a 4th breaker that appears to trip all breakers when 10 to 12VDC is applied. We really aren't sure what these were made for but they are brand new and are fully labeled Carlingswitch part # AA4-XO-02-149-1D1-C.

**G2308 \$2.00 ea.**



### Handy Push Re-Cirk-It Breaker

Handy circuit breaker by Eaton Heinemann products mounts in a .6" panel hole (comes with a press on panel mtg ring). Rated 12AMP at up to 250VAC or 10AMP at 50VDC. Brand new and of course its Eaton Heinemann quality!

**G4035 \$1.00 ea.**





## Save Energy and Money with GreenPlug®

We have just received a large quantity of these energy saving devices known as GreenPlugs®. A GreenPlug® is an electronic device that reduces electricity usage and energy waste. The technology inside of a greenplug consists of a patented ideal Voltage Controller that senses and controls the voltage applied to a motor or appliance. Motors run cooler and quieter while using less electricity. GreenPlug® literature states that their unit will save you money on your electric bill, extend the life of your appliance and protect against voltage surges which also reduces the use of natural resources required to create electricity. According to the information we received with the GreenPlugs®, testing was performed in the US and Canada with results as follows for refrigerator savings. **Based on average savings of 28.5Whr/hr. Savings may vary with line voltage and appliance efficiency.** GreenPlug® supplies full line voltage when your refrigerator starts up, or turns on an internal fan. However, when your refrigerator doesn't require full voltage, which is most of the time, GreenPlug® doesn't allow excess electricity to come through to the motor. We were told that after 1992 many major appliance manufacturers incorporated this type of circuitry into their new designs which probably impacted the GreenPlug® company in a big way. If you do have a pre 1992 appliance you'll want to try one of these fascinating devices. The units we have are complete and new, however the smaller types were to be shipped in bulk to GreenPlug® distributors so they do not have a retail blister package or retail cardboard box. We are selling these at a fraction of their original price. Each is very simple to use; just plug the GreenPlug® into your outlet and then your appliance into the GreenPlug®. We have several different models available. **Please note: The manufacturer has closed so the guarantees printed on the packaging are void and of course, since the Electronic Goldmine sells surplus we can not guarantee the efficiency of the GreenPlugs® or be responsible for any liability connected with their use.**

### Save Energy Resources

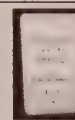
UTILITY RATE W/TAX	SAVINGS/YEAR
\$0.08/KWH	\$20
\$0.10/KWH	\$25
\$0.12/KWH	\$30
\$0.14/KWH	\$35



## Type 1 Refrigerator or Freezer Greenplug®

This type is designed for 120VAC refrigerator or freezers up to 7Amps (840 Watts max) manufactured before 1992. Not for use on models with LED digital displays. New with instructions.

**G9946 \$3.98 ea.**



## Type 5 Heavy Duty GreenPlug®15 Pumps & Motors

This type of GreenPlug® works with makes and models of pool & spa pumps, sump pumps, well pumps, circulating water pumps and small motors. These large units are rated 120VAC at 15Amps continuous. This is slightly less power rating than the type 4 GreenPlug® below, however this unit plugs into any standard grounded outlet not the heavy duty 20Amp outlet that the type 4 requires. Features 2 built in female outlets to plug your pump or motor into. Has built in surge protection and circuit override. New in sealed manufacturer box with instructions.

**G1103 \$9.49 ea.**



## Type 6 Heavy Duty GreenPlug®15 for Soft Drink Machines & Commercial Refrigerators / Reach-in Coolers

This type of GreenPlug® works with all makes and models of soft drink machines, commercial refrigerators, reach in coolers, ice freezers & ice machines, water coolers & fountains. Made for 120VAC machines up to 15Amps. Features built in surge protection and circuit override. Plugs into any standard grounded outlet and has two built in standard grounded female outlets to plug your machines into. New in sealed manufacturer box with instructions.

**G1104 \$9.75 ea.**



## Type 7 Heavy Duty GreenPlug®20 for Soft Drink Machines and Commercial Refrigerators/Reach-in Coolers

This type of greenplug is similar to the type 6 greenplug above except this one is rated 20Amps. Features 2 female 20amp outlets built in to allow several machines to be plugged in (up to a total draw of 20amps). Has built in surge protection and circuit override. Note: this GreenPlug® is designed to plug into 20amp outlets only (these 20amp receptacles are configured with the left slot in a horizontal position) New in sealed manufacturers box with instructions.

**G1105 \$10.25 ea.**



## Hardware

### Silicone Sealant RTV

Here's a handy item for applications that require a weatherproof flexible seal. Silicone sealant bonds to glass, metal, many plastics, etc. We have a handy sealed 1/2 oz. tube of clear RTV sealant. The tube comes with a screw on cap that you use to puncture (open) and reseal the tube. We use this RTV to seal and strengthen soldered wire connections on glass solar panels. Please observe all cautions printed on tube when using.

**G14496 99¢ ea.**



### Gold Plated Terminal Rings

Great for making high quality audio connections, these gold plated insulated terminals can handle 10/12 gauge wires. "Wired installation accessories by Orion" Part # 0333-0233. This is a retail package of 4 red insulated terminals and 4 black insulated terminals (8 all together). Gold plated deluxe ring terminals.

**G13122 \$2.00**



### Gold Hold Down Screws for Audio Wires

Great for making custom speaker cabinets, stereo connections etc. These 8-32 bolts are gold plated for reliable noise free connections. Great for new construction or replace old standard types with gold plated types. Screw has .35" square wire "hold down" washer attached. Overall length about .36"L. Set of 4.

**G12732 \$1.00/Set of 4**

**G12732A Bag of 100/\$22.00**



### "Snap In" Chrome Hole Plug

Made to plug holes in metal chassis, this metal hole cover snaps into a .2" hole and stays flush unless you pry it off with a knife. Handy item to have in your parts cabinet.

**G13319 20/\$1.00**



### 100 Agilent Pot Hex Nuts

Bag of highest quality hex nuts designed for mounting standard 3/8" bushing pots, switches, etc. (most common standard size). Full sealed factory bag of 100 nuts.

**G14722 \$4.99/Bag**



### Factory Bag of 100 Washers

Made to use with above nuts.

**G14723 \$1.99/Bag**



### Round Metal Spacer Standoff Assortment

Assortment containing 25 spacers/standoffs. Each has in common that they are round. Some of them are threaded inside for a bolt and some are just hollow with no threads. Very handy. Sizes range from 3/16" to 1 1/2" long.

**G7116 \$2.00**



### Loop Test Point Assortment

Handy test point terminal loops for PC board consist of a metal loop and an insulated base. Simply solder lead into PC board and you have a small "round loop" metal test point with an insulated base. Assortment contains several different colors of the insulated base.

**G13798 20/\$1.00**

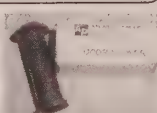
**G13798A 100/\$4.00**



### High Quality Door Viewer

Want to know who is at your door before you open it? Try our high quality simple to install door viewer. Simply drill a 7/16" hole in door unscrew viewer, insert and retighten viewer. Antique brown finish metal body. For doors up to 2 3/4" thick.

**G8539 \$1.79 ea. • 10/\$15.00**





## Pot Hex Nuts

Standard hex nut for all 3/8" potentiometer bushings. High quality, chrome plated.

**G145 10/\$1.00**

**G145A 50/\$3.00**



## Super Standoff Assortment

Handy assortment of various size and types of metal and plastic standoffs. Tiny to large sizes. You get 30 pieces total.

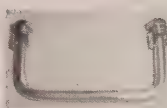
**G6567 \$2.00**



## Super Quality Fold Down Metal Handle

Made for equipment boxes, racks, etc., these 3 1/4" handles are made of brushed 1/4" Dia. aluminum with complete hardware. Handle folds down for compactness when not in use. Brand new.

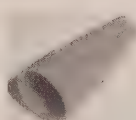
**G4519 \$2.98 ea.**



## Handy Wire Nuts

Great for connecting several wires together. Simply remove insulation from the end of wires, insert into wire nut and twist until a firm connection is made.

**G3203 20/\$1.00**



## Stud Type Hex Stand Off Assortment

Assortment of 20 various size stud type standoffs. Each stand-off has a male stud on top and a female threaded base. 4-40 and 6-32 types included with several lengths.

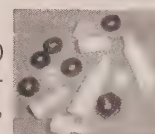
**G5300 \$1.00**



## Nylon Hardware Bag

Small reclosable bag containing 50 pieces of nylon insulated type hardware. You'll find nuts, standoffs, screws, washers, etc. All prime.

**G6129 \$1.00**



## Gold Plated Double Row Male Header Assortment

Prime double row gold plated .025" square pin headers feature solder plated surfaces on the mounting pins. All are .20" wide and spacing between pins is standard .1". Each of these headers can be cut at "snap" points to make smaller size headers. Each header will have at least one pin or more missing (to serve as keying guide). Sizes from 6 pin to 32 pin. Package of 10 pieces.

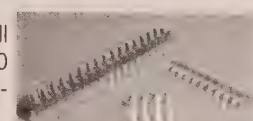
**G15305 \$1.00**



## Header Assortment

Assortment of various snap apart male headers, you'll find singles and duals in sizes from 2 pins up to 20 pins and larger. All have square .025" posts. Assortment contains 6 pieces.

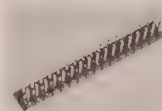
**G7345 \$1.00**



## 34 Pin Male Header

Standard 0.10" spacing male header consists of two rows of 17 pins each can be cut apart for different applications.

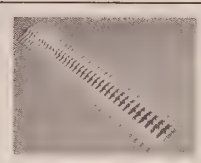
**G1675 5/\$1.00**



## Right Angle Snap Apart Male Header

Right angled pins. 10 pin male header.

**G7586 5/\$1.00**



## 32 Pin Inline Female Snap Apart Machine Pins

Standard .125" spacing female machine pins on a snap apart strip.

**G12996 \$1.00**



## Friction Lock 2 Pin Header 0.100" Pitch (0.025" Square Pins) Tin Plated

Prime 2 pin male header with friction lock.

**G14322 5/\$1.00**

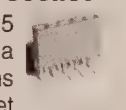


## Berg 5 Position Female Header Socket

Board mount female header features 5 socket positions on .1" centers. This is a very well made socket and features 2 pins for PC board connection on each socket position (for strength). Blue case .5" L x .1" W.

**G13129 5/\$1.00**

**G13129A 100 for \$16.00**

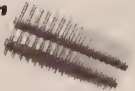


## Samtec Gold Plated Dual 0.025" Header Centerline 0.100 Board Stacker

Features 17 pins x 2 (34 pins total).

These are standard square 0.125 pins that are gold plated on top and are tin/lead plated on part that solders into PC board. These are used to provide electrical interconnect and mechanical stacking of PC boards

**G14284 \$1.00 ea.**



## Samtec Tin Plated 34 Pin (Dual 17) Female Socket Connector

These mate with the G14284 shown above. Features 2 rows of 17 female sockets. These are designed to provide electrical interconnect and mechanical stacking of PC boards.

**G14312 \$1.00 ea.**



## 64 Pin (32 pin Double Row) 0.100" Pitch (0.025" Square Pin) Straight Male Header

Prime tin plated double row male header. Overall length is 3.15" x 0.20". Can be cut to various lengths.

**G14323 \$1.50 ea.**



## 20 Pin Gold Plated Male Header

This high quality, cut apart male header consists of two rows of 10 gold plated pins each. Pins can be removed in pairs to allow you to customize for different applications. Standard 0.10" spacing.

**G13282 5/\$1.00**

**G13282A 100 for \$18.00**



## 8 Pin Gold Plated Dip Component Header

Great for making miniature custom circuits that plug into an 8 pin dip socket.

**G13166 \$1.00 ea.**



## Gold Plated Shorting Jumpers/w Handle

Small shorting jumpers for .100" space headers. Black color with open section to allow for testing. Brand new prime.

**G13194 10/\$1.00**

**G13194A Sealed Bag of 1000/\$25.00**



## 10 Pin Straight Male Header

Standard 10 pin (0.025" square pins) male header with tin plated pins. Standard 0.1" spacing between pin centers.

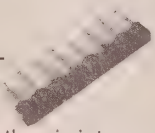
**G14402 10/99¢**



## Female Socket Pins

Snap apart row of 8 pin female machine pins. Make any size socket with these-even use for LEDs caps, resistors, etc. After soldering the pin into your PC board simply pull off the black plastic top. One set contains 8 pins.

**G14371 3/99¢**



## 3 Pin Header

Standard 0.025" square header pins with 3 pin cut apart holder. Each pin is 0.5"L and is on 0.1" centers. Tin or solder plated.

**G14767 20/\$1.00**



## 6 Pin Snap Apart Male Header

Consists of two rows of 3 pins. Can be cut apart in 2 pin increments to allow you to customize if desired. Standard 0.10" spacing.

**G13279 10/\$1.00**

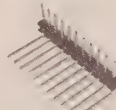
**G13279A 1000/\$80.00**



## 11 Pin Right Angle Male Header 0.100" Pitch (0.025 Square Pins)

Right angle PC board mount male header with tin plated 0.025" square pins. Overall length=1.086".

**G14320 2/\$1.00**



## 32 Pin Round Male Pin Snap Apart Header

Nice quality snap apart header features 32 round male pins as shown. Make any size you wish from 1 to 32 pins as these snap apart very precisely. Each pin is designed to solder inboard and features a 0.25" tall pin (above base which is 0.02" dia.) and is spaced 0.10" from the next pin.

**G14627 99¢ ea.**





## ClearVoice™ Labtec Stereo Headphone with Boom Microphone

High quality Labtec LVA-8525 stereo headphone with noise cancelling mono boom microphone is designed for voice command, speech recognition, internet communications, etc. Lightweight quality headset features 32Ω impedance and frequency response of 20-20,000Hz. Microphone requires 1.5VDC power source and has a response of 100-16,000Hz with an impedance of 2000Ω. Has built in volume control and on/off switch for the microphone. With two 3.5mm lake stereo plugs for connection (one for headphone and one for microphone). Brand New.

**G12771 \$7.95 ea.**



## Super Bass Turbo Headphones

Made by one of the most popular makers of quality audio products, these comfortable lightweight headphones produce beautiful stereo sound. Since the ear buds barely rest in the ear these provide greater comfort and they are easier to keep clean. Brand new worth much more than our low price. Has flexible cable with stereo 3.5 MM plug for almost all types of portable CD, cassette players, radios, etc. Has adjustable metal headband and grey plastic side pieces. Model type Tracker™.

**G9316 \$3.49 ea.**



## Labtec Curve™-465 Stereo Headphones

These latest technology over/around the ear headphones feature 32 ohm impedance, a 3 foot long cord with 3.5mm gold plated stereo plug, and brilliant blue color. Their 20-20kHz response with a 103dB/mw sensitivity insures that you'll love the sound without the the hassle of the headband. Check these out - you'll see them in use everywhere. Cutting -edge style for music in motion. Brand new in attractive sealed retail packaging. Made by Labtec. Model # Curve™- 465. Regular price \$24.95. Check out our incredible sale price while supplies last!

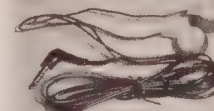
**G13762 \$3.49 ea.**



## Stereo Headphone Ear Buds

Prime "Ear Buds" stereo headphones made by GE for use with just about any walkman or stereo portable radio. Great for replacement as these have the most commonly used stereo plug. Brand new in cellophane package.

**G3375 \$2.49 ea.**



## Teac Personal Earphone

Made for private listening of mono radios, tape players, etc. These feature white earpiece, ear clip, 3 ft. cable and miniature 2.5 mm male mono plug. Brand new in retail blister card.

**G9252 \$1.29 ea.**



## Folding Stereo Headphones

Unique compact folding headphones come inside a standard cassette case. More comfortable than earbuds and these have an excellent response 20Hz-20kHz, 9dB @ 1kHz. Weight of headphones is only 1.5oz.

**G14194 ~~\$3.95~~ SALE! \$2.49 ea.**



## Labtec Icon-750 Special Edition Stereo Headphones and Free FM Radio

These are one of the nicest high quality stereo headsets available. They are current product advertised on the WEB at up to \$25 and more for the headphones alone. They feature digital design-ideal for MP3, DVD and MD. Headphones are light weight, with comfortable ear cushions, have and acoustic air vent for enhanced bass, and have a self-adjusting headband for superb comfort. Complete specs are as follows: Driver 40mm, Impedance 32Ω, sensitivity 102 dB/mW, magnet neodymium, cord length 4 ft., plugs-gold plated stereo 3.5mm and gold plated 1/4" stereo adapter plug. Packed inside the blister package with these headphones as a free bonus is a small lightweight, attractive 3 1/8" x 1 5/8" x 9/16" thin FM auto Scan Radio by Labtec. It features a Led power indicator, excellent sensitivity, tremendous sound and a handy clip for attaching it to your clothing when you jog or go to the gym, etc. Requires 2 AAA batteries (not included). The stereo headphones and the radio are brand new and in a factory sealed heavy duty attractive retail blister package. The headphones come with a full 1 year warranty from Labtec. Hurry as this is one of our best offers ever. Remember you are getting the high quality Labtec Icon-750 stereo headphones and a free FM radio. Buy several for gifts at this blowout price!

**G13112 \$12.95 ea. • 2/\$25.00 • 5/\$60.00**



# Heaters

## NASA Space Exploration Wafer Thin Heating Elements

These were made for various NASA "Space Programs" including Landsat, Telestar, and Mars Observer. They are new and prime and were excess after the project was completed. They are used to keep batteries and electronics functioning when the space vehicles are exposed to temperatures such as 130°K (-226°F) on Mars. A large variety of shapes, sizes and wattage ratings of these 0.01" thin heaters were to be used. Each has a sealed grid heating element and each starts producing heat as soon as electrical power is connected. We connected 12V to one and after several seconds it felt warm, however different types produce different amounts of heat from different voltages. All are brand new with long insulated leads. Some come with peel and stick surface to make it easy to attach to a chassis or battery, etc. Hurry, the last time that we had these they sold out fast. Made by Minco, and other top names. We are selling these at a small fraction of the original cost.

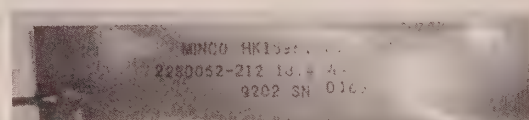


	Dimensions	Model#	Power Output	Stock#	Price
Type 2	Rectangular: 9 1/2" x 1 11/16"	Minco HK15771	60.6Ω • 29.0watts	G4552	\$8.49
Type 3	Rectangular: 5 1/4" x 6 7/8"	Minco HK18905D	350Ω • 7.42watts	G4553	\$9.00
Type 4	3" x 11" Triangle	Minco HK14967	92Ω • 89.6watts	G4554	\$9.50
Type 5	3" x 20" Triangle	Minco HK13383	15.6Ω • 57.8watts	G4555	\$10.00
Type 6	4" x 28 3/4" Triangle	Minco HK14965	67.5Ω • 323.4watts	G4556	\$12.00

## Miniature Heater

This is from a NASA Space Exploration program and is only .01" thin. Heater is a high quality unit with flexible hookup leads. This is a smaller size unit. This is brand new and ready to use. Made by Minco. Rating 18.4watt 780Ω. Size 0.75" x 3.5". Minco# HK15951.

**G5076 \$4.00 ea.**



## Small Heater Assortment

Assortment of 3 different types and sizes of small heaters made for NASA. To use simply connect up to a battery or other source of power. Each is only .01" thin. All have flexible wire leads and each is brand new prime—fully marked. Sizes may vary from about 1" up to as much as 5".

**G5085 \$10.00/Assortment of 3**

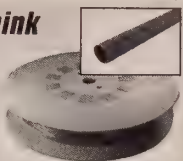




## Giant Roll of 1/4" Heat Shrink

Black 1/4" heat shrink by Canusa Systems is rated 600V. Shrink temperature is 160°C. This is a full factory reel containing 246 ft. Part# CPX-876 1/4" -SPL-BK-PTD. UL, CSA and OFT approved. The price per foot is only about 12¢!

**G14697 \$29.99/Roll**



## Insulab Insul-Grip® HS-205 5/8" Black Heat Shrink

Solid black glossy PVC heat shrink is 5/8" diameter with a thicker than usual wall for better durability. Shrink ratio is 2:1 and meets UL/CSA specs. Rated 600V 105°C VW-1 CSA/OFT.

**G13520 4 ft. piece \$1.00**

**G13520A 20 ft./\$5.00**

## Super Heat Shrink Tubing

Prime opaque color, high quality super shrink tubing. 1 1/2"Dia. in 1ft. sections. Black in color.

**G14294 \$1.00**

## Bag of Heat Shrink

Handy assortment of 25 pieces of various color, diameter and length heat shrink tubing. Length ranges from about 1" to 3", and diameter ranges from 3/32" to 3/4". Very useful.

**G179 \$1.00**

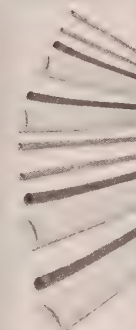


## Heat Shrink Tubing

Highest quality heat shrink tubing by Alpha, 3M, Raytech and other quality manufacturers. This is fresh prime heat shrink for almost every application you can think of. Each of these "shrink" when heat is applied. Each piece is 4ft long.



Stock#	Color	Dia.	Price	Stock#	Color	Dia.	Price	Stock#	Color	Dia.	Price
G1223	White	3/64"	\$1.00	G1263	White	3/4"	\$2.00	G14685	White	1/4"	\$0.99
G1229	Orange	3/32"	\$1.00	G1265	Black	3/4"	\$2.00	G14687	Black	3/8"	\$0.99
G1232	Black	3/32"	\$1.00	G1267	White	1"	\$2.50	G14688	White	3/8"	\$0.99
G3946	Brown	3/32"	\$1.00	G14675	Black	1/16"	\$0.69	G14689	Black	1/2"	\$1.19
G1248	White	1/4"	\$1.40	G14676	Clear	1/16"	\$0.69	G14690	Green	1/2"	\$1.19
G1249	Clear	1/4"	\$1.40	G14677	Black	3/32"	\$0.79	G14692	White	1/2"	\$1.19
G1250	Black	1/4"	\$1.40	G14678	Clear	3/32"	\$0.79	G14693	Blue	1/2"	\$1.19
G1254	White	3/8"	\$1.50	G14679	Black	1/8"	\$0.89	G14694	Black	3/4"	\$1.29
G1256	Clear	3/8"	\$1.50	G14680	Clear	1/8"	\$0.89	G14696	Black	2"	\$1.99
G1257	Black	3/8"	\$1.50	G14681	Black	3/16"	\$0.89				
G1261	Black	1/2"	\$1.70	G14682	White	3/16"	\$0.89				
G1262	Yellow	3/4"	\$2.00	G14683	Black	1/4"	\$0.99				
				G14684	Clear	1/4"	\$0.99				

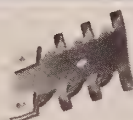


## Heat Sinks

### Small TO220 Heat Sink

Small black anodized heat sink has hole pre drilled for one TO220 semiconductor and 2 solderable tabs to mount heat sink to circuit board. Size about 0.89"W x 1.26" Tall (excluding PC board tabs).

**G14155 4/\$1.00**



### Thermally TO220 Insulator with Grease

Peel apart sealed packet contains one TO220 insulator with hole and covered with "white thermal transfer grease compound" to be used when mounting TO220 semiconductor devices to heat sinks. Simply peel apart paper packet when ready to use.

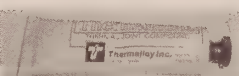
**G14151 3 Packets/99¢**



### Thermal Joint Compound

Standard white thermal joint compound for use when mounting semiconductors to metal heat sinks. Made by Thermalloy Inc. and branded Thermalcote™. New tubes ready for use. Giant 2 .oz tube!

**G12747 \$4.00 ea.**



### Black Anodized Aluminum Heat Sink

Very efficient quality. Size 1 7/8" x 1 7/8" Device T03.

**G2017 \$1.00 ea.**



### Black Anodized Aluminum T03 Heat Sink

Nice quality simple design heat sink for metal TO3 case transistors. Size is 1.65"L x 1" wide x 1" high.

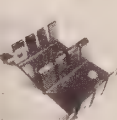
**G14355 3/99¢**



### Dual Heat Sink for TO220

Heat Sink for holding 2 plastic TO220 semiconductors. Features two 440 taped mounting holes and black anodized aluminum. Size about 1.5"(W) x 1"(H) x .6"(D)

**G2109 \$1.00 ea.**



### Peel & Stick Ultra Thin CPU Heat Sink

Very simple to use heat sink for your CPU features an overall size of 44mm (1.73") sq x 2.8mm (.11") thick, allowing it to fit where other heat sinks can't. Simple to use - just peel off backing and stick on. Black anodized aluminum.

**G12709 \$2.49 ea.**



### Unique Easy to Use Efficient Heatsink for Microprocessors

This unique heat sink features a plastic 1.6" square clip that snaps over a 1.47 (approx. 37mm) microprocessor such as a 386. In the center is a black anodized 3 fin aluminum heat sink which you screw into the clip until it comes in contact with the top surface of your microprocessor (use a little thermal grease for heat transfer) and you have a very efficient cooling setup. Brand new.

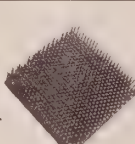
**G14319 \$2.49 ea.**



### Black Aluminum Heat Sink

Made for CPU use, but will cool peltier, ICs, transistors etc. Very efficient with hundreds of rod-like fins. 60mm Square x 14mm.

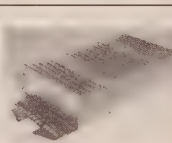
**G13955 99¢ ea.**



### Large Aluminum Heat Sink

Large 5 3/8"L x 2 1/16"W x 1"H heat sink has 4 holes for mounting a fan (not included). Made by Foxconn (part # 00N7285). Natural anodized aluminum with efficient cooling fins.

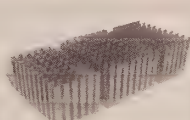
**G2207 \$2.98 ea.**



### Super Large Heat Sink

Black anodized aluminum heat sink type HS10198 measures 4 7/8"L x 2 3/16"W x 1 1/4" Tall. Features 4 mounting holes and a large quantity of fins for efficient cooling.

**G2209 \$2.98 ea.**



### Giant Heat Sink

Type HS10199 by Wakefield is 3" x 3 1/8" x 1 5/16"H. Features massive quantity of cooling fins. Black anodized aluminum. Great for high power audio, computer or power supply applications.

**G2208 \$2.98 ea.**



## High Tech Items

### MEMS Assembly

MEMS(Micro Electro Mechanical Systems) assembly made for blinding output video projection unit. Consists of a 1"L x 0.78"W reflective mirror assembly which contains over a million micro mirrors. Each mirror represents one pixel. When a mirror receives a signal it moves slightly, directing the light striking it to hit a lens. A typical projector uses 3 of these units (RGB). The mirror assembly is mounted on a 5"L flat flex cable which terminates in a 100 pin female connector mounted on top of a flex cable. These assemblies may have slight scratches and/or slight problems as listed on some of them by the QC dept. We have no info on these and no way of testing them so we are selling them "AS IS", no returns. The original cost was hundreds of dollars each.

**G13751 \$5.00 ea.**





## Brand New Sophisticated Flex Format Uniden Pager with 7 Alerts and Vibrate Function

Small 20 message memory and 1,700 character capacity pager type ALP9080 by Uniden operates on 1 AAA battery (not included) and features backlight, 7 alerts plus vibrate and sound. These alpha numeric pagers were for the Spanish market so the menus and words are in Spanish. The built in clock and alarm digits are of course readable and usable as this is the same in English and Spanish. You can set the time and set alarms to go off. We are blowing these out mainly for experimenting and as a source of a high quality miniature pager motor, speaker, LCD backlit display, crystals, coils etc., however it is brand new complete with belt holster. Size about 3" x 1 7/8" x .78". Color flat black. This is an attractive and new pager, however it probably can't be activated for use in the U.S. pager networks (we don't know but that is why we are blowing these out as the cost on these was probably over \$100 each). The frequency is in the 900MHZ Band.

**G13700 \$1.99 ea.**

## Brilliant 4 White LED Cluster

Originally designed for a white LED flashlight, this 0.72" diameter round circuit board features four 5mm (T1 3/4) brilliant white LEDs connected in parallel. Simply connect 3.0VDC up to 3.8VDC (+ on center) to it and you'll see a bright white light. Super blowout price!

**G14877 \$1.99 ea.**

## Pneutronics Digital Pneumatic Valve

These were removed from large computer memory jukeboxes. They consist of a round panel mount solenoid valve which is used to convert a digital electrical signal into a digital pneumatic output. These small low power valves may be panel or screw mounted and will power small cylinders directly. These operate from 13.5VDC, have a coil resistance of 274Ω and have a 2 pin female connector at the end of two 4" wires. Size of entire unit is about 1.76"L x .66"sq. Has 2 brass pneumatic connectors on the valve, however we can only measure the outside dia. - one is .15", the other is .075". Used removed from equipment.

**G13462 \$2.49 ea.**

## Peltier CPU Cooling Module

High quality Peltier cooling module made by Melcor Corporation. It features a 1 3/16" sq. peltier module mounted to a 2 1/4" sq. black anodized heat sink. It has four metal clamps that would allow it to be mounted to a circuit board and pressed to the module against the CPU. Can operate from 6VDC @ 1.5 amps to provide a nice cold surface. Cold surface has copper metal surface. Module has color coded leads and connector for power hookup. New!

**G2201 \$11.95 SALE! \$9.95 ea.**

**See Additional Fan/Heatsink Combos on Page 34**

## Border Patrol Closed Loop Transmitter

Closed loop transmitter unit for an electronic dog fence system. This was designed to produce low frequency waves wherever you buried your "wire" perimeter. When your dog approached your invisible fence a special receiver collar (not available from us) would give the dog a mild shock. We have the complete transmitter unit only which would probably make the basis for a fascinating wire guided robot. Sorry, no specs or other info except that the case is 6" x 4" x 1 1/2", it has two binding posts on back of unit to connect almost any length of wire you wish to use, a 5.5mm power jack for 9VAC input (no adapter is included-We tried it with a 9VDC center+ adapter and it worked), a range selector switch and LEDs to indicate power and a "closed" loop. These appear to be new, however we have no other info on them.

**G14489 \$6.95 ea.**

## Wireless Shower Speaker System Type WSH-7

Special wireless speaker system. The receiver/speaker is white in color and can be used in your shower. Complete system includes transmitter, adapter for transmitter, cables, white receiver/ speaker (requires four "C" batteries-not included), all in an attractive retail box.

**G8054 \$41.95**

## Contaq II Uniden ALP9090 Alpha Numeric Pager

Brand new 2 line alphanumeric pager by Uniden, operates from a AAA battery (not included). This pager features 78 notebook storage locations, 20 mail drop locations, 30 personal message locations, a Clearvue™ illuminated display, silent or vibrate alerts, multiple alert tones, time/day/date alarms and out-of-range indicator. We are not sure if these can be activated so we are selling them "AS IS", however, as soon as the battery is installed, you can set date and alarm functions. Complete with belt holster and instructions. Size about 1 7/8" x 3" x 0.78". Frequency is in the 900MHz band. Set up for english operation.

**G13891 \$2.49 ea.**

## Super Cooler Peltier Fan/Heatsink

Giant assembly consists of a Peltier effect cooling module mounted inside a giant heat sink assembly. It was made for a recreational cooler and features a large aluminum heat sink which gets very cold. Next to the large heat sink is a heat insulator which is attached to the smaller heat sink which releases the heat as the large heat sink cools. We include a 12VDC fan which you place near the "hot" side to increase the cooling from the large heat sink. Overall approximate size about 5"L x 5"W x 3.9" Thick. Has red & black flexible leads for power. Operates on 12V to 13.8VDC @ 6Amps. This is the most powerful cooling module we have ever offered!

**G14582 \$32.95/Set**

## 120VAC Negative Ion Generator

Compact negative Ion Generator cleans air impurities and provides a fountain of fresh air. These negative ions are the same type that are produced in a thunderstorm. This unit is similar in size and operation to our 12VDC negative ion generator that we sell except that these are set to 7.5kv and can operate directly from standard 120VAC. Very simple to use simply-just connect any AC line cord to the black and white power leads and a tremendous quantity of negative ion will be emitted by the 4 needle emitter assembly shown. Fully encapsulated module is about 2" x 1 5/8" x 7/8". Brand new!

**G1783 \$10.95 ea. • 10/\$99.00**

## 4' White line cord

**G1784 \$1.00**

## 12VDC Operated 15KV Negative Ion Generator

Compact negative Ion generator cleans air of impurities and provides a fountain of fresh air. Negative ions are produced during a thunderstorm and these are the same type that this 2 1/4" x 1 5/8" x 7/8" module produces. Operates from 12VDC (can even operate from a 9V battery at slightly reduced output). Simple to use, just connect 12VDC to the red and black power input leads and a tremendous quantity of negative ions will be emitted by the needle assembly shown. These are brand new factory fresh prime units perfect for homes, cars, offices, etc.

**G9695 \$12.95 ea. • 2/\$25.00**

## Discwasher 1120 Hydrobath CD Cleaning System

Amazing unit features a non-contact cleaning system for CDs. Automatically rids all disc types of debris and contaminants. Use with any disc cleaning fluid (available at almost all record and department stores) and requires 4 AA batteries (not included). The unit automatically spins the CD at the touch of a button, then after the wash cycle the CD automatically spins in the reverse direction until it is dry, then the unit automatically shuts off. All this takes less than a minute and then you can lift the cover and place another CD on the spindle and clean it! The retail price of this is \$29.95 ea. We are selling these items at a blowout price of \$5.95 each or you can buy 2 for \$10.00. Our units are brand new in the original manufacturers bag and styrofoam, however, they were not packed in the retail box. We do include a photocopy of the instructions.

**G14241 \$5.95 ea. • 2/\$10.00**

## "Clip On" Safety Flasher

Super bright flasher designed for joggers walkers, dogs etc. Clips onto belts, pants, back packs etc. Features 3 brilliant red leds which flash or can be made to "stay on continuously". Has red plastic lens and operates on 2 AA batteries (not included). Size about 1.9" x 2.7" x 1". Brand new in retail package.

**G12938 \$2.49 ea.**



### Key/Remote/PDA Finder

This handy item allows you to find your misplaced keys, TV remote, PDAs, cell phone, etc. Simply attach the small 2" x 1.16" x 0.44" receiver to any item (comes with key ring and a piece of hook & loop peel & stick). Now if you can't remember where you left your item, press the multifinder transmitter button and the receiver attached to the item will beep 12 times. Works up to 50 ft. away. These are brand new and similar items sell in high tech catalogs for up to \$49.95. You get one 8 button transmitter and one receiver (both with batteries included) in a retail package.

**G13924 \$9.95 set**

### Additional Receiver

Additional receiver for above transmitter.

**G15217 \$5.95 ea.**

### Voice Transmitter/Receiver Pair

Made for a hands free cellular phone setup and consist of a small self contained transmitter which uses 2AA batteries (not included) and a small receiver unit which plugs into a cars cigarette lighter. The transmitter features a sensitive built in electric microphone, a push on/off switch a red "on" indicator and a transmitter circuit which can transmit any sound in a room to the receiver which can be located 50ft away. The receiver has a coiled cord with a plug that must be cut off so that you can connect together 2 sets of wires (we supply the info). After this modification just supply 9 to 12VDC to the cigarette plug terminals and you can have a high quality receiver for the transmitter unit. Receiver has a volume control and an "on" indicator plus a built in high quality speaker. Set consists of one transmitter and one receiver unit (which you need to modify per our simple instructions). These originally cost up to \$100 each and are new. May vary slightly from picture.

**G1782 \$10.00**

### Precision Blood Pressure Monitor Circuit Board

These were the "brains" of a late model consumer blood pressure monitor. On each board you will find an LCD Display, pressure sensor, piezo and other various electronic components. Sorry, but the air pump, air solenoid and cuff are missing. This is a great experimenter's item. We have no data on these and we are selling them "AS IS". Size of board is 5 1/2" x 2 1/2".

**G13247 \$1.99 ea.**

### Quartz Alarm Clock

See thru plastic case alarm clock is about 3" in size. Features analog hour, minute and second hands, plus a yellow pointer that you set to the desired alarm time. Alarm is a clear electronic tone. Operates from one AA battery (not included). The gears and motor assembly on these can be used to make robots (you can search this info on the internet). Brand new in retail package. Styles and case colors vary - Sorry, no choice.

**G14709 \$1.99 ea.**

### Lamp 3 Level Touch Control Kit

These handy kits were made by Leviton to turn any lamp into a touch control lamp that has 3 level dimming. Controls up to 300 watt, 120vac lamps. Small size: 1 3/4" x 1 1/2" x 3/4" control unit is meant to be hidden in the base of the lamp. After installation, simply touch any metal part of lamp or shade, and lamp will turn on at 30%, touch again for 70%, touch again for 100%. A 4th touch turns it off.

**G8325 \$4.95 ea.**

### Four Level Fan Speed Control w/ Dimmer

Decora Quiet Fan Speed Control features reduced hum at low speeds, positive on/of switching and allows for full range of speed control for fan. In addition, it features a full range incandescent light dimmer. Fan control is rated 1.5 amps, 120VAC. Dimmer is rated 300 watts. Attractive and functional control for your home. Leviton part # 6620 available in white.

**G5009 \$8.95 ea.**

### Decora Rotary Quiet Fan Speed Control & Lamp Dimmer

High quality stylish lamp dimmer and fan speed control offers convenient control of ceiling fans and their incandescent light fixtures for maximum comfort and efficiency. This model 6617-WSP by Leviton features two control knobs. The upper control knob turns the fan motor on (at high speed) and adjusts its speed. The lower knob turns the light on and allows for dimming and brightening. Rated 2.5A 120VAC/60HZ - fan, 300W 120VAC/60HZ - incandescent light. For use with split capacitor or shaded pole fan motors only. Mounts in standard wall switch box - has 3 wires (common, motor and light). White in color.

**G5010 \$8.95 ea.**

### Honeywell Multifunction Tabletop Lamp Dimmer

This unique device is not only a full range 400 Watt lamp dimmer, but also it has a built-in sensor to automatically adjust your lamp to compensate for brightness changes in the room. Lights can be turned on, off, or dimmed manually at anytime. No installation required. High quality, attractive white and grey compact unit. New in sealed retail package. Honeywell part# CL200D-1009.

**G14618 \$5.95 ea.**

### Baxter Automatic Soap Dispenser

This brand new dispenser features a powerful 6VDC air pump, an IR activated automatic hand sensor circuit board, a miniature solenoid and 4 "D" size battery holders. These are brand new, however they are missing the "special soap bottle" so we are selling them at a fraction of their original cost. Tear them apart for the air pump and sensor or find some way to make the "special soap bottle". Size about 7 3/4" Tall x 7 1/2" L x 4 1/2" W.

**G13190 \$19.95 ea.**

### Pitney Bowes Automatic Electric Letter Opener

Model 1200 by Pitney Bowes is an ivory colored desktop letter opener designed to slice open letters. Simply place them next to the auto trigger switch and the unit quickly slices the top of the letter open. Overall size is about 10 1/4" x 8 1/4" x 4 3/4". Plugs into standard 120VAC outlet. These appear to be used and we don't have instructions however they are easy to use. May have a few minor scratches on case, but otherwise they are good in every detail.

**G9972 \$8.95 ea.**

## Home Items

### Dual Rabbit Ear Antenna For Older TVs

Standard style adjustable telescoping antenna for older (non cable) TV sets. Has flat twin lead cable with terminals and plastic mounting stud. New.

**G14486 \$1.99 ea**

### Telescoping Single "TV" Antenna

Made as a replacement for TV sets, this antenna is 6 1/2" long in the collapsed state and extends to about 38". High quality chrome plated antenna has swivel mount and plastic "snap in" base piece (fits many small TVs). Antenna has 11" flexible wire with F connector to plug into TV antenna jack. Brand new - can also make a nice presentation pointer for teachers!

**G14088 99¢ ea.**

### Super Home Products Surprise Box

Large 12" x 6" x 6" box crammed full of various new electrical electronic items. Each will vary somewhat from the picture but the first one we opened contained mostly retail blister carded items, timer with clock, non contact voltage detector probe, various wall outlets, plugs, night lights, lighting controls, home automation items, etc. Each box will differ and will contain these or other valuable electrical, electronic home items. All items are new.

**G13686 \$24.95**

### Professional Telescoping Tripod

This aluminum leg tripod is sturdy and features quick release clamps on legs, a handy bubble level and standard camera mount top stud. It extends to 1.5 meters (about 54") plus the center post cranks up 9" more. Length is 24" long total when retracted. Features tilt, rotate, and lock position head. Deluxe black matte finish on all tips, handles and head parts. Brand new in zipper carrying pouch.

**G14490 \$24.99 ea.**

### Binocular Mount

Optional binocular mount adapter for above tripod.

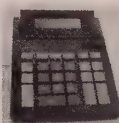
**G14485 \$4.99 ea.**



## Big Display 8 Digit Calculator

Large LCD Display calculator that can tilt upwards to accommodate viewing. Large keys have all of the important functions—perfect for balancing your checkbook, calculating ohm's law, or just having an extra calculator around for when the need to calculate something arises. Complete with built in battery. Brand new in manufacturer's box. Approximate Size: 5 7/8" x 7 1/2" x 1/2".

**G1749 \$3.49 ea.**



## Macurco Inc. GD-2A Combustible Gas Detector

Detects heating gases: Propane (LP), and natural (methane). Features SPDT alarm and N.C. trouble relays. Does not require maintenance or recalibration. The GD-2A is designed for use alone or for connection to alarm control panels. It can operate on 12 to 24volts. Consists of an attractive 2 part plastic case which allows the GD-2A to be installed over a four inch square or double gang electrical box, providing a near flush mount. Operates on 12 to 24V AC or DC @ approx. 83ma. Color white. Relay contact rating .25Amps 100V. Operating temp range 32° to 120°F. These are brand new in original factory box with instruction sheet. UL listed. Don't confuse these with inexpensive marginal units - these are worth over \$80 each and are one of the best units made!

**G13287 \$39.95 ea.**



## Inductors

### Audio Power Inductors for Crossovers

These were precision made for a/d/s/ car audio speaker system crossovers. Each of these inductors can handle the current shown. Build your own powerful custom crossovers using these inductors and our special metalized film polyester/polypropylene audio capacitors. All ratings are shown in millihenries. Cores are (O) open, (F) ferrite, (I) Iron Laminations.

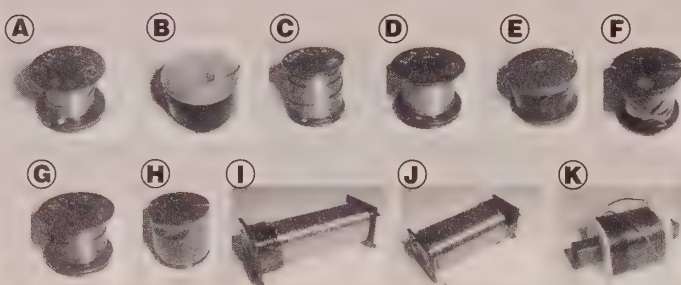


Fig.	Inductance	Current	Size	Stock#	Price
A	0.12MH	1.2amp	1 1/4" x 15/16" Tall (O)	G13175	\$1.00
B	0.24MH	1.2amp	1" Dia. x 9/16" Tall (O)	G13178	\$1.00
C	0.26MH	0.9amp	7/8" Dia. x 15/16" Tall (O)	G13180	\$1.00
D	0.40MH	1.2amp	1 1/4" Dia. x 7/8" Tall (O)	G13183	\$1.00
E	0.60MH	2.3 amp	1 3/8" Dia. x 1" Tall (F)	G13187	\$1.50
F	0.50MH	0.6amp	1 1/16" Dia. x 1" Tall (O)	G13191	\$1.50
G	0.50MH	1.2amp	1 1/4" Dia. x 1" Tall (O)	G13193	\$1.75
H	0.70MH	0.9amp	1" Dia. x 1 1/8" Tall (O)	G13197	\$2.00
I	2.0MH	3.7amp	3 1/8" L x 1 3/16" sq. (I)	G13203	\$4.00
J	3.93MH	3.7amp	3 1/8" L x 1 3/8" Dia. (I)	G13205	\$5.00

## Infrared Items

### Tiny SMD IR Optical Transmitter/Sensor

Consists of a small IR LED and small IR sensor with specs matched to each other. Each device faces outwards. The 4 lead device is simple to use. Power the IR LED with a pulsing circuitry and as an object comes within the range of the IR sensor, the pulsing IR signal will be reflected back into the IR sensor (so you can detect the object). Sorry no info available. Brand new prime-size .158" L x .12" W x .067" Thick.

**G13145 \$1.00 ea. • 10/\$8.00 • 100/\$65.00**



### Super Infrared LED

Super output jumbo size infrared LED made for use in Zenith remote controls. Diffused grayish blue lens. High output unit actually produces 2 spots of infrared energy. Great for hundreds of infrared applications. Prime and unusual type LED.

**G2318 3/\$1.00**

**G2318A 100/\$25.00**

**G2318B 1,000/\$220.00**

### IR Photodiode

Black case photodiode is about .28" x .3" x .12". Features radial leads and special black case which allows predominately IR energy to strike the photodiode. NEC PH302.

**G14816 3/99¢**



### Precision Swiss Made IR Object/People Deector

These are small precision made devices that are designed to detect objects on a conveyor belt, people, etc. They are extensively used in factory automation and consist of a sealed IR emitter and detector circuit all inside a compact 63mm(L) x 17mm(dia) encased sensor assembly head. The device has a flexible cable and is very simple to use. Simply mount the unit in the area where you wish to detect objects or people (such as a doorway). A reflector is mounted (not included but we tried a 2" x 4" auto reflector we purchased at a local discount store and it worked fine) up to 3 meters away. Connect any source of DC from 10V up to 30V to 2 of the leads and a load such as a chime, buzzer, relay, LED, etc. to the output leads now each time the invisible beam is interrupted, the load will activate or deactivate (your choice) then immediately reset when the beam is not blocked. These were made for continuous reliable industrial applications and as such were very expensive. They are new in their factory boxes with simple to use instructions. Made by Scientific Technologies Inc. and the original price of these were a fortune! Hurry as we have only a limited quantity. Note: If your factory uses other STI factory automation devices contact us for other items as we have several hundred different devices in stock on a very limited quantity basis at a fraction of their original prices.



**Sensor Window on end**

**STI/ELESTA OLS372A310**

**G1977 \$29.95 ea.**

**Same as left except sensor window is on side**

**STI/ELESTA OLS372A320**

**G1979 \$29.95 ea.**

### Precision IR Diffuse-Reflective Sensor

This is another precision Swiss made factory automation detector unit. This unit does not require a reflector to detect any object in front of its end window. It can detect objects, people, etc. up to about 8" away. Output can be connected to a relay, LED, chime, etc. Precision circuit is contained in a 63mm(L) x 17m(dia) encased sensor head. The device has a flexible cable and is simple to use—just hook power to 2 of the leads and a load circuit to the other 2. Included directions are very simple. These are industrial reliable devices designed for trouble free performance. New-made by STI/ELESTA model# OLS472A340. These are worth a fortune!



**Range detects up to 8"**

**STI/ELESTA OLS472A340**

**G1982A \$24.95 ea.**

**Same as left except long range will detect up to 18" away**

**STI/ELESTA OLS472A350**

**G1981 \$27.95 ea.**

### Everlight PT91-21C 1.9mm Subminiature Axial SMD Phototransistor

Perfect for the "eyes" in miniature robots, these tiny SMD clear lens phototransistors feature a Vceo=30V, Ic=20mA, 75mW power rating and a peak sensitivity at 860nm wavelength. Overall spectral response is 400-1200nm. On tape & reel.

**G13767 5/\$1.00**

**G13767A 1,000/\$140.00**





## Motorola Infrared LED Type MLED91RLRE

Prime IR LED on tape & reel.  
**G8283 5/\$1.00**



## T1 High Output Infrared LED

Small high power infrared LED in T1 clear case. Perfect for all types of infrared applications. Made by Kodenshi. Type # EL-7L.  
**G5704 3/\$1.00**

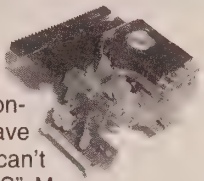
## Powerful "Side Looking" IR LED

Clear lens side looking IR LED is perfect for robotic or invisible beam alarm applications. These are on tape and reel. Prime!  
**G13766 25/\$1.00**



## Laser Heads

Complete IR laser heads from optical CD drives. These look complete and appear in good condition, however since we do not have any info, data or hookup info we can't test them and must sell them "AS IS". May vary slightly from picture.  
**G9361 \$1.00 ea. • 10/\$9.00 • 100/\$65.00**



## Brand New CD Rom Drive Assembly

This is the main drive mechanism made for a CD rom drive. It features 2 quiet but powerful, efficient DC motors which operate from about 5VDC, various gears mechanical parts and an infrared "Laser Diode". The motors in these are perfect for use in Robots! Overall size about 3 3/4" x 3 3/8". New but no information available.  
**G4119 \$3.49 ea.**



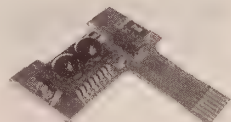
## Miniature Precision Optics/Laser

These are the latest type of head assemblies from CD drives. They contain 2 miniature prisms glued together to form a cube, a miniature magnifying lens in holder, several miniature strong magnets, an IR laser diode, moving coils, and various other parts. The assemblies they came from were new, but we are selling these "AS IS". We have no specs or data, but we do know that the optical pieces were glued in and can be pryed off with a small screwdriver once the covering has been removed by taking the screws out. Approximate size is 2.5" x 1.1" x .75" (excluding cable). Sold as is only—no returns.  
**G12812 \$2.49 ea.**



## Laptop Computer Infrared Port

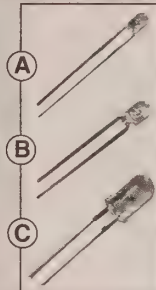
Small assembly is a complete infrared PORT module for a Laptop computer. The part # is G8UAP made by NEC. It consists of a 2 bubble opto device (one bubble is an IR LED the other is the IR sensor) and all associated circuitry, all on a 1 1/8" x 1/2" circuit board. These are brand new prime modules with all components and a flexible input cable. There are only 4 active leads: +, -, output, IR LED. We show you a diagram where these leads are, however we do not have the data sheet or any other info on how to use these. Looks like it would make a great "eye" for a Robot or make custom accessories for your IR compliant palmtop or laptop computer. Brand new - Prime!  
**G9229 \$2.00 ea. • 10/\$18.00  
100/\$175.00 • 1000/\$1500.00**



## Premium Infrared LEDs

Prime IR LEDs for all types of IR remote controls, robotics, IR audio, etc. applications. These are brand new with full length leads. All have clear lens. Max V<sub>f</sub>: 1.6-2V.

Fig.	Lens Size	Peak Wavelength (nm)	PO(mw)/If (ma)	Angle	Stock	Price
A	3mm	940	2.00/20	±20°	G14583	3/\$1.00
A	3mm	940	2.00/20	±30°	G14584	3/\$1.00
B	3mm	940	0.5/20	±35°	G14585	4/\$1.00
C	5mm	880	5.00/50	±50°	G14586	3/\$1.00
C	5mm	880	8.00/50	±40°	G14587	2/\$1.00
C	5mm	940	2.62/20	±20°	G14588	3/\$1.00



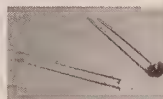
## NEC SE303A Infrared LED

This T1 3/4 (5mm) IR LED is used in many TV/VCR remote controls. Perfect for replacement or new construction of IR transmitters, remote controls, etc. Crystal clear lens with full length leads. Blow-out price on these factory prime IR LEDs.  
**G14754 5/\$1.00**



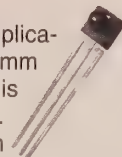
## Micro Size IR Receiver and Emitter Pair

We just received thousands of these tiny IR emitters and companion IR receivers. Use them for all types of IR, remote control and robotic applications. Prime made by Telefunken. Sorry we have no data. You get one emitter and one receiver. Active area is on top of lens not the sides.  
**G1846 \$1.00/pair**



## OSRAM SFH 5110-40 IR Receiver

Great for IR remote control or robotic applications. High sensitivity IR receiver for 940nm IR energy. This miniature 3 leg receiver is easy to use and has a built-in preamp. Carrier frequency is 40kHz. Operates on 5VDC. See complete specs on Web. Brand new with full length leads.  
**G14560 99¢ ea.**



## Miniature IR Receivers For R/C Uses

Complete IR receiver type TSOP2836 by Vishay can be used in thousands of remote control projects. Can be used to operate a relay from up to 20' away with a TV remote control. These 3 pin devices are only 7mm x 6mm x 5.6mm and operate from any 36KHZ IR signal remote transmitter (TV remote). New with spec sheet.  
**G6042 \$1.49 ea.**



## Micro Size Opto Slot Interrupter

These are the smallest slot interrupters we have ever seen. They consist of an infrared LED on one side and a phototransistor on the other. Size of body 3/16" square x 1/8" high.  
**G8751 2/\$1.00  
G8751A 100/\$45.00**



## TSOP1156KSI IR Receiver Module for IR Remote Control

Three lead small IR module features internal photo detector and preamplifier in one package. This module has a built-in internal filter for PCM frequency and is TTL and CMOS compatible. Operates on 3-6VDC and is designed for 56kHz carrier frequency. These are used in many VCR, TV and robotic applications. See complete specs on Vishay website. Prime-blowout price!  
**G14617 3/99¢**



## High Output T1 3/4 Infrared LED

Prime high output T1 3/4 (5mm) infrared LED features a water clear lens and long leads. Perfect for hundreds of IR transmitter projects or IR remote control use.  
**G2158 4/\$1.00**



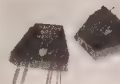
## Infrared Emitter

Small gold plated T108 infrared emitter outputs up to 3 milliwatts of infrared energy.  
**G2817 \$1.00 ea.**



## Reflective Sensor/Emitter

Handy item for making object counters, object avoiding robots, object sensors, etc. Consists of an infrared LED and an NPN phototransistor all mounted in an opaque black plastic case with 2 tiny holes in the front end. The IR LED emits IR energy which will reflect back to the phototransistor when an object is near. Type HOA708-1. Prime marked units. Sorry no data sheet available.



STOCK# G8669			
1-24	25-49	50-99	100 UP
\$1.25	\$1.13	\$1.00	88¢

## Vishay Miniature IR Module Type TSOP2233

Miniature 3 lead IR receiver module is great for use in robotics. Super sensitive to 33kHz pulses. Use with standard VCR/TV remote controls for a long range IR remote control setup. These are brand new and operate from 5VDC. Simple to hookup, in fact, we supply an info sheet on it. Brand new with leads as shown.  
**G14017 2/\$1.00**



## TSOP 1140 IR Receiver Module

High sensitivity IR receiver allows you to make thousands of IR remote control devices. These contain the detector amplifier and filter in one package. Simply add 1 transistor, a relay, a capacitor and a couple of resistors to make a 56KHZ wireless IR receiver capable of closing a relay contact when a 56KHZ IR signal is received. Made for use in VCRs, TVs etc. New with simple receiver schematic. Size 10mm(W) x 12mm(H) x 6mm(thick). Operates on 5VDC.  
**G4354 \$1.29 ea.**



## Photo Detector

Small infrared detector made by Honeywell. These feature a black case with detector surface on the top. Has long leads.  
**G9412 4/\$1.00**





## High Output IR LED

See thru blue 5mm lens IR LED with 0.36" long leads.

**G14670 3/99¢**



## Infrared Modules

We have just purchased a good quantity of prime infrared modules. There has been many articles written about using these as the "heart" of various IR remote controls (TVs, VCRs, etc) and each has only 3 hookup pins. Each module operates on 5 to 9VDC and each can light a LED or close a 5V relay from up to 20ft. away using almost any TV/VCR remote control. Module and hookup diagram only-You provide LED or relay. Prime-Latest type modules. Compare our price to others!

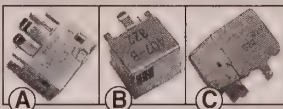


Fig.	Stock#	Type	Price
A	G8155	Sony SBX 1531	\$1.79 ea.
B	G8156	Sony 407-b322	\$1.79 ea.
C	G8157	Sharp GPIU581Y	\$1.79 ea.

**100 of any 1 type - \$150.00**

**1,000 of any 1 type - \$1,200.00**

## Temec TFM 5360 Miniature IR Photo Module for PCM Remote Control Systems (36KHz Carrier Frequency)

Brand new miniaturized receiver for infrared remote control systems. Feature a PIN diode and preamplifier assembled on a lead frame with a black epoxy IR filter case. Size is only 0.48" tall x 0.40"W x 0.23" thick. These are used as the detector in MP3 players, VCRs, TVs, cable boxes, etc. Special blowout price!

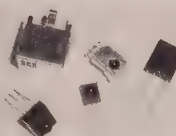
**G14384 5/99¢**



## IR Receiver Module Assortment

Consists of 5 different factory new IR modules. Each is very sensitive to IR signals from remote controls. Great for experimentation, remote control, robots etc. We have no specs or data for these but we will include one representative schematic for driving a relay with one of the modules (using this you should be able to figure out the rest of them as each has only 3 leads). Brand new - Prime.

**G12958 \$5.00**



## TIL 31B IR Emitter

Prime IR emitter features built in magnifying lens, 9 1/2" long flexible color coded leads and removable holder. These are in a gold plated TO18 case mounted in a "push on" holder (removable). Brand new - Special Price!

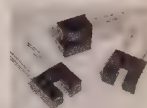
**G14318 10/\$1.00**



## "Slot" Detector

Type HOA6971-N51 optical slot for end of tape or other types of detection. Prime units consist of IR LED on one side of slot and photo transistor on other.

**G9384 3/\$1.00**



## Our Most Powerful IR LED

Type LTE-3271T clear lens 5mm IR LED made by LITE-ON features a Peak forward current capability of 2 Amp (pulsed) and a Radiant Intensity of up to 12.63 ms/sr with I<sub>F</sub>-20mA. Peak Emission Wavelength 940nm. Viewing angle 50°. Forward voltage 1.65V to 2.1V. Brand new factory prime-great for making powerful IR light sources or powerful IR transmitters.

**G13160 2/\$1.00**

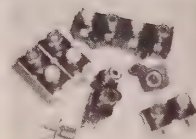


# Jacks & Plugs

## High Quality RCA Jack Assortment

This tremendous assortment of RCA type female jacks is a must have for any audio enthusiast. These all came from an audio equipment manufacturer and most have gold plating for superior connections. This assortment contains right angle and upright PC mounting jacks in a variety of configurations. Brand new - Blowout price! Package of 6.

**G13239 99¢**

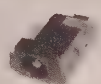


## Small Rectangular Power Jacks

These types are made for standard female barrel power plugs. Each has a closed circuit switch. Both types have 3 solder lugs for connection.

**5.5mm G7946 5/\$1.00**

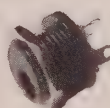
**7mm G7947 5/\$1.00**



## 5.5mm Panel Mount Power Jack

Unusual Item in that this jack comes with a nut to enable you to mount it in a 0.5" hole in your panel or chassis. Made for standard 5.5 mm female barrel plugs with 2.0 mm centers. Has 3 solder eyelets for connection and has NC switch that opens when plug is inserted.

**G14352 99¢ ea.**



## 5.5mm DC Power Jacks

### with NC Switch

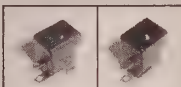
Small PC mount power jacks designed for 5.5mm barrel plugs. Each has N.C. switch contacts (3 lead jack). We have 2 different types of center post diameters as shown. Prime great quality jacks.

**G13507 2.0mm 2/\$1.00**

**G13507A 2.0mm 100/\$35.00**

**G13512 2.35mm 2/\$1.00**

**G13512A 2.35mm 100/\$35.00**



## Super Banana Jack Assortment

This is our best banana jack assortment ever. You get 5 different color insulated panel mounting banana jacks with panel mounting nuts. This is always a popular item.

**G14334 \$1.99 ea.**



## Grey Banana Jack

Panel mounting grey insulated banana jack mounts firmly and simply with special slide on clip.

**G14338 3/99¢**



## 1/4" PC Board Stereo Jack

Nice quality solid construction standard 1/4" stereo jack. These come with a panel mounting nut, but they can also be mounted directly to the PC board using the 3 pins.

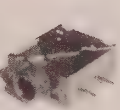
**G13001 \$1.00 ea.**



## SMD 2.5mm Stereo Headphone Jack

Tiny SMD mounting headphone jack for 2.5mm male headphone plugs. High quality gold plated. Size only 9mm W x 10mm Deep x 4mm H.

**G13562 \$1.00 ea.**



## 2.5mm Panel Mounting Mono Jack

Small panel mount jack comes with panel mounting nut and features a NC switch that opens when plug is inserted. These are becoming rare.

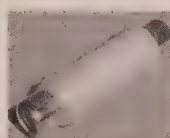
**G14206 2/\$1.00**



## RCA to RCA Adaptor

Here's a handy item to have around! Adaptor features 2 female RCA phono jacks connected together in a small 1 1/2" long molded package. This allows you to extend speaker cables, stereo cables, etc. High quality gray and chrome connector.

**G3128 2/\$1.00**



## Banana Jack Assortment

Colorful assortment of 4 different banana jacks. Each has a panel mounting nut and is of highest quality. You get 4 different colored jacks.

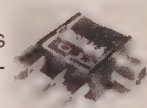
**G7120 \$2.00**



## Replacement Power Jack

These accept male mono plugs such as on small headphones and certain adapters. With hardware.

**G5518 4/\$1.00**



## Gold Plated Audio Quality RCA Jacks

Gold plated RCA type female jacks for quality connections. Prime-perfect. Blowout price. All are PC board mounting.

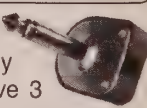


	Type	Stock#	Price
Fig. A	Right Angle	G13165	10/\$1.00
Fig. B	Upright	G13173	8/\$1.00

## 1/4" Audio Plug

Standard 1/4" mono plug (commonly used with electric guitars). These have 3 removable screws on case to allow access to solder your cable in.

**G14643 3/99¢**



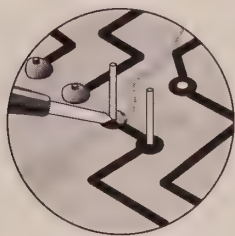
## Audio Jack Stereo Coupler

Handy item connects inline a 1/4" male Stereo jack to a 1/4" male stereo jack. Make long cables without soldering. High quality made by Electricord.

**G14704 99¢ ea.**







PC Board Soldering

The Electronic Goldmine offers one of the largest selections of low cost, high quality electronic kits available anywhere. Thousands of these kits are sold each month to hobbyists, schools, technicians, engineers, commercial companies, etc. Each of these kits come with a drilled glass epoxy PC Board, all necessary electronic parts (except as noted on a few of the kits) and easy to understand instructions. You only need to provide a battery for the battery operated kits, and if desired, you may wish to provide a case. We recommend that you use a low wattage soldering iron and good quality rosin core solder when assembling your kits. You will also need to have a pair of wire cutters. Building our kits is both rewarding and fun, because they are thoroughly engineered, so that with proper assembly they work the first time! Skill levels should be observed as shown in the listing below.

## Skill Level 1 Beginner

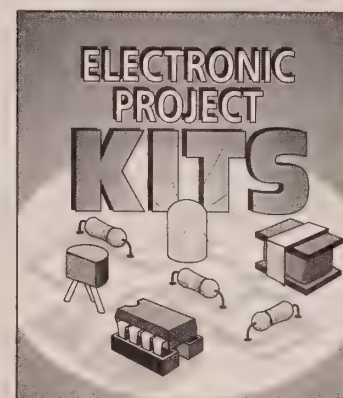
No Previous Knowledge  
of Electronics

## Skill Level 2 Intermediate

Have Built Kits Before  
Knows AC Safety Precautions  
Solders Well

## Skill Level 3 Advanced

Have Built Many Kits  
Knows AC Safety Precautions  
Solders Perfectly



### Learn To Solder Kit

Special kit designed for the person who has no experience with soldering. The first 20 components are used to gain soldering experience, but the last 10 components, when soldered in, make a bright red and yellow alternating LED flasher! Practice components include: capacitors, a transistor, resistors, and an IC socket. Requires one 9V battery (not included). Size of board: 4.75" x 3". Skill Level 1  
**C6445 \$8.50 ea.**

### Deluxe Learn to Solder Kit

Unique 3 kits in one! Consists of 13 practice parts for middle section, Insanity type alarm at one end and jewel LED flasher at the other end. Uses two 9V batteries (not included). Skill Level 1.  
**C6491 \$12.75 ea.**

### Universal Learn to Solder Kit

Kit teaches soldering technique for both standard and SMD components. After using both sides of the board to practice, the student will build a fully functional insanity alarm (C6240) which operates on a 9V battery (not included). Skill Level 1.  
**C6758 \$9.25 ea.**

### Learn to Solder Robot Kit

Consists of 2 circuit boards and various electronic parts that you solder to the boards. The eyes, center LED and both hand LEDs flash brightly for weeks continuously. Simple to build! The 3 1/2" tall x 7/8" wide Learn to Solder Robot uses one 9V battery (not included) which also allows it to stand on just about anything (keyboards, monitors, desks, books, etc.). Skill Level 1.  
**C6845 \$9.95 ea.**

### Deluxe SMD Learn to Solder Kit

A great way to gain experience in soldering, identification and use of Surface Mount Device (SMD) Technology. Includes a practice section and a working LED flasher. Uses 9V battery (not included). Size of PC board: 2" x 3". Skill Level 2.  
**C6719 \$9.25 ea.**

### Wake Up Alarm Kit

Sensitive CDS cell operated kit. Sounds like a crazed bumble bee when activated. Operates 2AA batteries (not included). Skill Level 2.  
**C6481 \$7.50**

### Turn Over Alarm Kit

When this kit is turned over, a loud tone goes off. Prop it up against your door to protect your privacy! Uses 9V battery (not included). Skill Level 1.  
**C6378 \$6.95**

### Secret Alarm Kit

Scare off anyone who opens your drawer. Arm switch and you have a couple of seconds to close the drawer. Uses 9V battery (not included). Skill Level 1.  
**C6455 \$8.50**

### Burglar Beware Kit

Realistic control panel with keyboard houses a 2 transistor LED flashing and SCR control circuit that "appears" to be the real thing. Uses 9V battery (not included). Skill Level 1.  
**C6472 \$11.75**

### Water/Flood Alarm Kit

Emits a high frequency tone and lights a red LED when water comes in contact with its probe wires. Operates on one 9V battery (not included). Skill Level 1.  
**C6848 \$6.45**

### Burglar Alarm kit

Universal type burglar alarm kit. Operates on 6VDC. Has on-board horn and red LED "on" indicator. Can be used with either normally open or normally closed loops. Skill Level 1.  
**C6280 \$9.25**

### Window/Door Burglar Alarm Kit

Produces a loud pulsating electronic sound from the built in piezo speaker and it also flashes a bright red LED. A small magnet (included) needs to be attached (glued) to the movable window or door. Operates on a 9V battery (not included). Skill Level 2.  
**C6703 \$10.35**

### Professional Burglar Alarm Kit

Uses an IC circuit and has an exit time delay, an entrance delay, an automatic horn cutoff after a period of time, an automatic reset circuit, and N.O. and N.C. loops to allow you to use your choice of optional sensor switches, such as reed switches, snap action switches, etc. Operates from two 9V batteries (not included). Size of PC board: 3 1/4" x 2 5/8". Skill Level 2.  
**C6785 \$14.25**

### Deluxe Burglar Alarm Kit

Features loud sound, adjustable time out period and unique pressure sensitive switch that you construct from materials provided and conceal under door mat. Even has relay contacts to power lights, etc. Battery operated on 6VDC (battery not included). Skill Level 2.  
**C6486 \$12.99**

### Light Sensitive Sound Generator

Creates a tone which varies depending on the amount of light. Fun beginner kit. Uses 9V battery (not included). Skill Level 1.  
**C4164 \$6.50**

### 10 Note Sound Kit

Make robot sounds, computer effects, etc. Synthesizer features 10 adjustable notes, variable pitch and speed. Circuit features 3 ICs and 12 trimmer resistors. Uses 9V battery (not included). Skill Level 2.  
**C4722 \$15.75**

### Sci-Fi Sound Effects "Therimin"

Has 2 light sensors: one controls the frequency and the other modulates (varies) the sound. Simple one IC circuit with built in speaker and an RCA jack output. Operates from one 9V battery (not included). Skill Level 1  
**C6841 \$8.95**

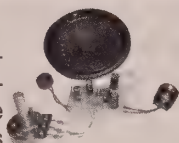
### Music Maker Kit

Plays the tune "When The Saints Go Marching In" every time the button is pushed. Operates on one 9V battery (not included). Size of PC board: 2" x 2 3/4" Skill Level 2.  
**C6714 \$9.25**



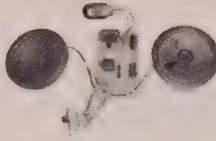
## Megaphone Kit PA

Use as a small self contained system. Includes high gain electric microphone, IC audio amp, volume control and a 3" speaker. Operates on a 9V battery (not included). Skill Level 1.  
**C6746 \$9.25**



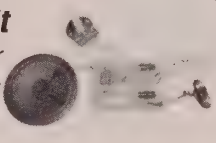
## Electronic Intercom Kit

Great for campers to cab, office, school, etc. Special noise reduction for clear sound. Uses 9V battery (not included). Skill Level 1.  
**C4743 \$12.99**



## General Purpose Amp Kit

Use as a full volume amplifier for computers or as an amplifier speaker output for various uses. Uses 9V battery (not included). Skill Level 1.  
**C6238 \$11.75**



## 20 Watt RMS Mono Amp Kit

High power amp for various booster applications. Very low distortion, features short circuit and open circuit protection. Operates from 12V DC. Skill Level 2.  
**C6444 \$22.25**



## 10W + 10W Stereo Amp Kit

Features one level control that sets level in both channels and red LED "on" indicator. Operates from 12VDC. Skill Level 2.  
**C6443 \$23.35**



## 20W + 20W Stereo Amp Kit

Great booster for car stereo. Two separate amps on one board, each with their own level control. Operates on 12VDC. Skill Level 2.  
**C6442 \$29.85**



## 80 Watt Car Stereo Booster Kit

Features two crystal clear 40Watt RMS channels for great sounding stereo sound! Operates from as low as 6VDC up to a maximum of 18VDC so it will work in any car. Power output with typical car input voltage of 14.4VDC is as follows: 40Watts per channel into a 2Ω speaker load or 25Watts per channel into a 4Ω speaker load. Maximum power occurs at 2 ohm impedance for each set of speakers. Features 2 level controls (one for each channel). Skill Level 2.  
**C6817 \$39.95**



## Fuzz Sound Kit

Produce sustained fuzz sounds with your electric guitar and this easy to build kit! Operates from 9V battery (not included). Skill Level 1.  
**C6239 \$11.65**



## 8 Note Tunable Electronic Organ Kit

Tunable 8 note organ features IC oscillator and darlington transistor output stage to provide clear loud tones. Operates from 3V to 9VDC. Size of board: 2" x 5". Skill Level 1.  
**C4736 \$12.95**



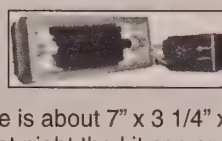
## Portable Filtered Blacklight Kit

Uses long-wave 5 1/4" ultraviolet blacklight tube. Operates on either 6V lantern battery or 4D cell batteries (batteries and holder not included). Skill Level 2.  
**C6790 \$22.00**



## Deluxe Blacklight in a Case Kit

Features a sturdy and handsome gray custom case. An AC adapter is included so that the blacklight can be operated from standard 120 VAC. Size of case is about 7" x 3 1/4" x 2 1/4". For portable operation at night the kit can operate from 4 "C" cells (not included). Skill Level 2.  
**C6786 \$29.95**



## Single Channel Color Organ Kit

Easy to build kit causes lamps (up to 200 watts) to flash to the beat of the music. Operates from standard 120V AC. Skill Level 2.  
**C4738 \$8.50**



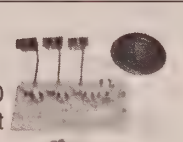
## 120VAC 3 Channel Color Organ Kit

Popular 3 channel organ causes light to flash to the beat and frequency of the music. Great for lamps, Christmas lights, etc. Skill Level 2.  
**C4530 \$15.75**



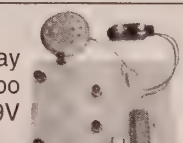
## Sound Activated 3 Channel Color Organ Kit

Make lights of your choice (up to 200 watts per channel) to flash to the beat of the music without any connection. Operates from standard 120V AC. Skill Level 2.  
**C6353 \$25.99**



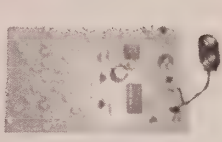
## Shimmering Color Organ Kit

Portable unit provides colorful display in response to music. Uses 12 jumbo LEDs, 6 each red and yellow. Uses 9V battery (not included). Skill Level 2.  
**C6446 \$10.50**



## Exploding Star Color Organ Kit

The display is like a firework that is in sync with your music. No connection to your sound source is necessary as it uses an ultra-sensitive electret microphone to pick up the sound. Kit uses 25 total blinding output LEDs in red, green and yellow colors. Operates on one 9V battery (not included). Skill Level 3.  
**C6818 \$15.95**



## Bright Star Color Organ Kit

Features 5 bright LEDs that flash to the beat of the music. Circuit features a miniature electret microphone and a high gain 3 transistor circuit so no connections to your stereo are needed! Operates on one 9V battery (not included). Skill Level 1.  
**C6815 \$6.49**



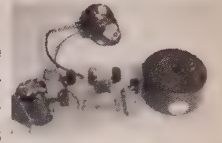
## Crazy Chirper Kit

CDS cell circuit keeps unit silent until the lights go out! That's when chirper is activated driving unsuspecting guests crazy. Uses 9V battery (not included). Skill Level 1.  
**C6470 \$6.25**



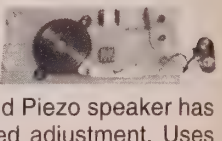
## The Aggravator Kit

Place this kit in a hidden place in the room and it will wait in total silence until the room darkens. In the dark it begins its aggravating function: for about 2 or 3 seconds every 3 to 5 minutes it emits a screaming tone. Operates on one 9V battery (not included). Skill Level 1.  
**C6840 \$5.50**



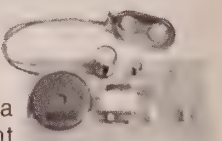
## Irritator Kit

Produces irritating pulsating noise and irritating pulsating red light. Uses 2 red LEDs and Piezo speaker has slide control that allows speed adjustment. Uses 9V battery (not included). Skill Level 2.  
**C6485 \$11.75**



## TOWS Kit

Terribly Obnoxious Woodpecker Sound (TOWS) kit produces the sound of what a crazed woodpecker might sound like. Uses 9V battery (not included). Size of PC board: 2 3/4" x 1 3/8". Skill Level 1.  
**C6712 \$5.95**



## Jungle Bird Kit

Have fun producing the sound of canaries or exotic jungle birds. Features 2 controls to produce various bird chirps. Uses 9V battery (not included). Skill Level 1.  
**C6374 \$8.50**



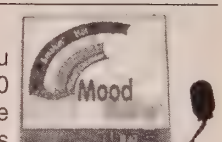
## Phasor Sound and Light Kit

Produces sound and light you've seen in space movies. You can control frequency of the sound. Uses 9V battery (not included). Skill Level 1.  
**C6406 \$8.50**



## Mood Meter Kit

Features a colorful label that you glue onto the PC board and 10 bright colorful LEDs to indicate your mood. Blue LED= "Cool as a cucumber", Green LED= "Easy going", Yellow LED= "Warm hearted" and Red LED= "Smokin' hot". Works off your skin resistance Uses one 9V battery (not included). Skill Level 2.  
**C6775 \$12.50**



## Fish Caller Kit

This kit produces a clicking sound which is said to attract fish! Some costumers have reported excellent results, but who knows? Uses one 9V battery (not included). Skill Level 1.  
**C4566 \$4.75**



## Insanity Alarm Kit

When you turn the lights off this kit emits a loud irritating tone. Turn lights on and it's silent. Uses 9V battery (not included). Skill Level 1.  
**C6240 \$6.50**



## GOT-YA Kit

You have to know the secret to turn alarm off. When picked up it makes a loud obnoxious noise. Uses 9V battery (not included). Skill Level 2.  
**C6464 \$11.75**

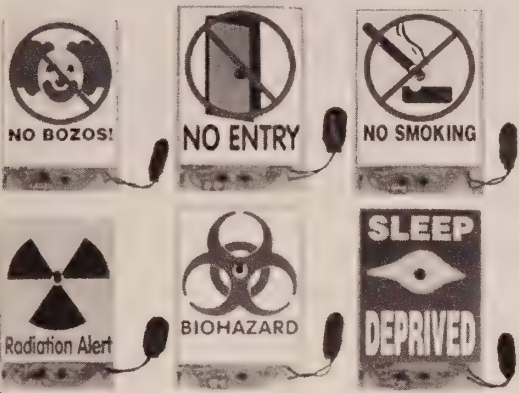




## Expression Flasher Kits

Each project kit features a custom designed full color label and a bright flashing red LED. These fun and easy-to-build kits make a perfect introduction to basic electronic circuit theory and transistor function. Operates one 9V battery (not included). Size of PC Board: 3 1/4" x 4 3/4". Skill Level 1. Each kit is sold separately.

<b>C6766</b>	<b>No Bozo Blinker Kit</b>	<b>\$6.50</b>
<b>C6767</b>	<b>No Entry Kit</b>	<b>\$6.50</b>
<b>C6768</b>	<b>No Smoking Kit</b>	<b>\$6.50</b>
<b>C6769</b>	<b>Radiation Alert Kit</b>	<b>\$6.50</b>
<b>C6770</b>	<b>Biohazard Kit</b>	<b>\$6.50</b>
<b>C6771</b>	<b>Sleep Deprived Kit</b>	<b>\$6.50</b>



## LED Flasher Kit

This attention getter flashes a red and green LED. Easy to build. Uses 555 timer IC. Operates on 5 to 9V DC. Skill Level 1.

**C3287 \$4.75**

## Jumbo LED Flasher Kit

Simple to build kit uses a to flash a jumbo red LED. Makes a great first kit! Operates from one 9V battery (not included). Size of board: 1.25" x 1". Skill Level 1.

**C4567 \$4.75**

## Tri-State LED Flasher Kit

This kit uses a trimmer control for continuous red or alternating red/green flashing from one LED! Great for beginners. Uses 9V battery (not included). Skill Level 1.

**C4069 \$5.95**

## Super LED Flasher Kit

Perfect for robot projects, space models, warning lights, etc. Features 4 LEDs, 2 red, 1 yellow and 1 green that flash. Uses 9V battery (not included). Skill Level 2.

**C4407 \$6.50**

## XXL Green LED Flasher Kit

Features 2 mammoth (10mm) green LEDs that alternately flash. Circuit uses 1 IC and operates from one 9V battery (not included). Skill Level 1.

**C6791 \$5.25**

## Sequential LED Flasher Kit

Easy to build kit combines IC circuitry and 10 jumbo red LEDs, which continuously light sequentially from right to left. Uses 9V battery (not included). Skill Level 2.

**C4431 \$10.25**

## Red Arrow Kit

Made up of 63 jumbo LEDs, the arrow lights sequentially and appears to move. Comes with 9V snap, but is adaptable between 5V and 12VDC. Skill Level 2.

<b>C6398</b>	<b>Red LEDs</b>	<b>\$23.40</b>
<b>C6399</b>	<b>Green LEDs</b>	<b>\$25.95</b>
<b>C6400</b>	<b>Yellow LEDs</b>	<b>\$25.95</b>

## Fireworks Kit

Creates exploding "fireworks" display. Features 17 micro red LEDs, 7 green mini LEDs and 1 jumbo red LED. Uses 9V battery (not included). Skill Level 2.

**C6454 \$9.25**

## Sports Car Flasher Kit

Features a full color sports car picture with yellow lights and red tail lights. Unique PC board allows most components to be mounted on back. Uses two transistor circuitry. Operates on 9V battery (not included). Skill Level 1.

**C6757 \$6.50**

## Flashing Stop Sign Kit

This 5" red and white stop sign features 22 tiny red LEDs which flash at a variable rate you can control. Uses 9V battery (not included). Skill Level 2.

**C6788 \$12.95**

## 3D Shimmering Pyramid Kit

Uses 75 jumbo red LEDs on a 3 dimensional pyramid that stands over 4" tall and has a base of 6" x 6" x 6". Has a hidden control to vary the effect from an overall shimmering effect to a sequencing effect. Uses one 9V battery (not included). Skill Level 3.

(Please do not attempt this kit if you have never built a kit).

**C6437 \$32.50**

## Mysterious 3D Pyramid Kit

This mysterious and amazing kit features 47 bright LEDs that flash at a rate that you can adjust. Uses one 9V battery (not included). The pyramid is about 3" high and has a 4 1/2" base. Skill Level 2.

<b>C6792</b>	<b>Red LEDs</b>	<b>\$16.85</b>
<b>C6793</b>	<b>Yellow LEDs</b>	<b>\$16.85</b>
<b>C6794</b>	<b>Green LEDs</b>	<b>\$16.85</b>
<b>C6795</b>	<b>Blue LEDs</b>	<b>\$49.95</b>

## Atom Expander Kit

This attention getter uses 98 red LEDs to produce "exploding atom" effect. For the experienced kit builder. Uses 9V battery (not included). Skill Level 3.

**C6373 \$35.25**

## Fascination Star Kit

Produces a "star" visual effect using 25 LEDs and IC circuitry. Uses 9V battery (not included). Skill Level 3.

**C4432 \$16.95**

## Flashing Triangle Kit

Triangle shaped LED flasher consists of 2 separate flasher groups, one flashing at a faster rate than the other. Features 8 jumbo red LEDs. Uses 9V battery (not included). Skill Level 1.

**C6440 \$7.25**

## Giant LED Traffic Light Kit

Uses 3 giant 10mm LEDs. Just like a real traffic light, this smaller version slowly sequences through green, yellow and red lights. Uses one 9V battery (not included). Size of PC board is 3 1/4" L x 1 15/16" W. Skill Level 1.

**C6810 \$6.95**

## Super LED Chaser Kit

Three groups of 2 LEDs light up sequentially to provide a stunning display. Uses one 9V battery (not included) and comes in your choice of colors. Skill Level 2.

<b>C6825</b>	<b>Red LEDs</b>	<b>\$3.95</b>
<b>C6826</b>	<b>Green LEDs</b>	<b>\$3.95</b>
<b>C6827</b>	<b>Yellow LEDs</b>	<b>\$3.95</b>
<b>C6828</b>	<b>Super Bright Clear Red LEDs</b>	<b>\$4.50</b>
<b>C6829</b>	<b>Super Bright Clear Green LEDs</b>	<b>\$4.50</b>

## 7 Speed Perpetual Blinker Kit

Kit blinks three powerful clear LED's, with seven different speeds, controlled by an 8 position DIP switch. Operates on 2 AA batteries (not included). Skill Level 1.

**C6744 \$5.85**

## Coin Tosser / Decision Maker Kit

Features one red LED and a green LED that flash at high frequency when you touch sensor wires. One LED remains on when finger is removed. Uses 9V battery (not included). Skill Level 1.

**C6354 \$4.75**

## Lie Detector Kit

Fun "poor man's lie detector"! Pitched tone varies if you are relaxed or nervous. Uses 9V battery (not included). Skill Level 1.

**C4657 \$6.50**

## Time Reaction Tester Kit

If you ever thought that your sense of timing was good here's an electronic kit to prove it! If your timing is good the LED will stay on, if not the LED continues to flash. Uses one 9V battery (not included). Skill Level 1.

**C4516 \$4.95**

## Super Time Reaction Kit

This fun kit tests your reaction time. Your reaction rating is indicated by labeled LEDs. Has an adjustable speed control. Uses 9V battery (not included). Size of PC board: 3 1/4" x 4". Skill Level 2.

**C6716 \$11.25**

## Macho Meter Kit

5 LEDs flash when your fingers are on touch plate. Remove your fingers and your "rating" is indicated by LED remaining on. Uses 9V battery (not included). Skill Level 2.

**C6362 \$11.50**

## The Tingler Kit

Are you a "Hero" or a "Wimp"? This kit will give you a chance to prove it! When you place your fingers on the touchpads, you'll then receive a "tingling" sensation from the varying intensity electrical voltage which you can adjust from "Wimp" up to "Hero." Uses one 9V battery (not included). Skill Level 1.

**C6740 \$11.75**



## IC Decision Maker Kit

When you depress a small on board switch a bright green LED and a bright red LED begin to alternately flash. As soon as you release the button, one of the LEDs stays on indicating the decision. Uses a CMOS IC and operates on one 9V battery (not included). Skill Level 1.

**C6701 \$4.95 ea.**



## Deluxe Decision Maker Kit

Displays the results to your questions using a variety of bright colored LEDs. Uses a 2 IC circuit and a label you glue onto the PC board. Uses one 9V battery (not included). Skill Level 2.

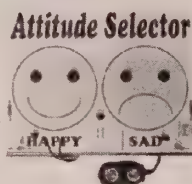
**C6780 \$8.95 ea.**



## Attitude Selector Kit

Place your finger on the sensor wires and the "Happy Face" and "Sad Face" LED eyes will glow. When you remove your finger only one set of eyes will stay on indicating your attitude. Uses one 9V battery (not included). Skill Level 1.

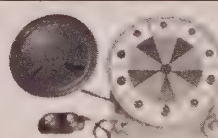
**C6776 \$6.50 ea.**



## Wheel of Fortune Kit

Push the button and 10 red LEDs appear to spin around wheel, as speaker ticking sound in sync. Release button to see what number the "ball" lands on. Uses 9V battery (not included). Skill Level 3.

**C3806 \$14.50**



## Rolling Dice Kit

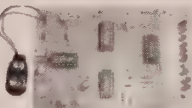
Push the button on this kit and 6 bright red dice "roll" rapidly. Release the button and one of the six standard dice patterns stays on indicating your number. Uses 9V battery (not included). Skill Level 1.

**C6412 \$16.95 ea.**

## Digital Racquetball Game Kit

This game is like playing racquetball against a computer opponent. The ball is represented by LEDs, and you have to "hit" the ball by pressing a button. Includes an adjustable speed control so that beginners will enjoy playing just as much as the "experts". Uses one 9V battery (not included). Skill Level 2.

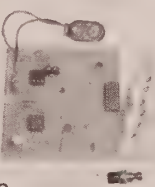
**C6726 \$18.15 ea.**



## Cliff Hanger Game Kit

Can you make it to the top of this electronic mountain without falling? A fun game of timing and skill make Cliff Hanger as much fun to play as it is to build. Operates from 9V battery (not included). Skill Level 2.

**C6723 \$14.50 ea.**



## Alien Attack Game Kit

Aliens are attacking, and it is up to you to intercept their bombs before they reach the ground. A great game of skill to keep you on your toes! Operates from 9V battery (not included). Skill Level 3.

**C6727 \$18.25 ea.**



## Plant Soil Monitor Kit

Two bright LEDs help to determine if your plants need watering. Adjustable to moisture level desired. Uses 9V battery (not included). Skill Level 1.

**C4744 \$5.95 ea.**



## Phone Hold with Music Kit

This handy kit not only puts your caller on hold, but plays music to entertain the caller. Comes complete with AC adaptor. Size of PC board: 3 3/8" x 3". Skill Level 2.

**C6718 \$16.95 ea.**



## 0-9VDC Variable Power Supply Kit

Perfect for powering radios, small tape players or various electronic projects. Control sets voltage. Operates on 120VAC. Skill Level 2.

**C6438 \$10.50 ea.**



## 0-12Volt Variable Power Supply Kit

Ideal for powering various electronic projects. Features a circuit protecting fuse, full-wave rectification, a LED power indicator, On/ Off switch, and a potentiometer. Outputs a maximum current of 125mA@12V and 200mA@10V or less. Skill Level 2.

**C6724 \$10.75 ea.**



## 1 AMP Variable Power Supply Kit

Features red, yellow, and green LEDs that glow at different output voltages from 0-12V. Great for powering projects, calculators, radios, tape recorders. Operates on 120VAC. Skill Level 2.

**C6789 \$23.50**



## Battery Tester Kit

Tests all types of common batteries. Features 5 calibrated trim pots to pre-set 5 types frequently used and has red and green LEDs. Uses 9V battery (not included). Skill Level 1.

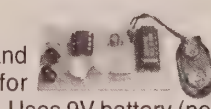
**C6414 \$11.75 ea.**



## Transistor Tester Kit

Use this kit to test both NPN and PNP type transistors. Useful for identifying unmarked transistors. Uses 9V battery (not included). Skill Level 2.

**C6448 \$7.85 ea.**



## Continuity Tester Kit

A must for anyone working with electronic circuits. Traces shorted contacts, circuit path continuity, etc. Uses 9V battery (not included). Skill Level 1.

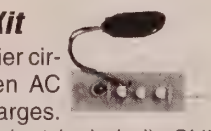
**C6385 \$4.75 ea.**



## Super Continuity Tester Kit

Uses a special Darlington amplifier circuit to allow you to detect even AC fields, negative ions or static charges. Operates from one 9V battery (not included). Skill Level 1.

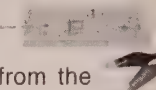
**C6787 \$5.15 ea.**



## CMOS/TTL Logic Probe Kit

This logic probe was designed to operate with voltages between 5 and 20 volts. Operates from the power of the circuit being tested. Size of PC board: 3 5/8" x 1 1/4". Skill Level 1.

**C6722 \$7.85 ea.**



## 3 Slot AC Outlet Tester Kit

This very useful tester checks outlets for 6 different faults or safety hazard conditions and displays the results. Uses bright "orange glow" neon lamps Operates from 120VAC. Size of PC board 2" x 2". Comes complete with a clear plastic box and label Skill Level 2.

**C6842 \$7.80 ea.**



## Electronic Cricket Kit

This electronic cricket starts "chirping" every time it gets dark. Of course, if you turn on the lights to look for the "cricket" it becomes silent again. Loads of fun. Uses 9V battery (not included). Skill Level 1.

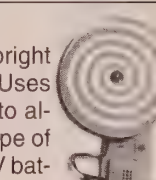
**C6707 \$6.50 ea.**



## IR Controlled Spinner Kit

Aim your remote at this kit and the bright red hypnotic wheel starts rotating. Uses a motor and a sensitive IR module to allow it to operate with any brand or type of IR remote control made. Uses one 9V battery (not included). Skill Level 1. NOTE: You provide the TV or VCR IR remote control.

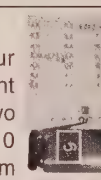
**C6778 \$6.50 ea.**



## SMD Flashing Initials Kit

Very unique kit flashes two initials of your choice on and off. Features extremely bright red SMD LEDs that you install to form any two letters from A to Z or any two numbers from 0 to 9. Letters are 2" high and can be seen from quite a distance. Complete with 44 SMD LEDs, all parts, PC board and instructions. Overall size of PC board 2 1/2" x 3". Operates from one 9V battery (not included). Skill Level 3 (This kit is not for beginners).

**C6861 \$12.95 ea.**



## Hypnotic Bars Kit

This unusual kit consists of 10 bright green LED bars which shimmer or flash for a hypnotic looking display. Kit features 1 IC circuit with a "Bar effect" control to adjust the back and forth flashing for the optimum unique shimmering display. Although the kit won't hypnotize you it really has a unique attention getting display of bright green bars. Operates from one 9V battery (not included). Size of PC board 2" x 1 1/2". Complete with all parts, PC board and instructions. Skill Level 2.

**C6772 \$6.45 ea.**



## 44 Second Kit

Press the arming button and the kit gives you about 44 seconds (give or take) to get away before an electronic tone sounds and the number 44 lights up on the bright red display! Uses one 9V battery (not included). Skill Level 1.

**C6730 \$6.45 ea.**



## SolarBug Kit

Produces a sound similar to a crazed cricket whenever the sun shines on it. Your tiny SolarBug can even be placed under a lamp and will "chirp" happily. Uses 4 tiny solar electric power generators. Size of PC board is about 2" x 15/16". Skill Level 1.

**C6843 \$9.95 ea.**





## Quiz Master Kit

This kit is the perfect answer to scholastic challenges, quiz olympiads, quiz answer bowls and any question/answer contest. Features

8 separate answer buttons and a master control board with 4 Red Team and 4 Green Team LED lights. The first contestant to answer after the question is asked causes 3 events to occur: A loud tone sounds, all other contestants are locked out, the contestant's indicator LED lights up on the Master Control Board to let the teacher know who to call on. The control board features a selectable time out tone that can be adjusted to any period of time from 3 seconds to 15 seconds. This tone is totally separate from the answer tone. With The Quiz Master you will have perfect judging every time—it never makes a mistake in choosing which contestant was first. Operates from 8 AA (not included). Overall size of board: 3.875" x 9.625" Complete with all parts, PC board, 100 feet of 2 conductor wire and instructions. Skill Level 3.

**C6419 \$89.95 ea.**

## FM Wireless Microphone Kit

Tiny FM wireless microphone transmits every sound in a room to any FM radio. Use it as a baby monitor, one-way intercom, etc.. Size of PC board: 1 13/16" x 1". Operates from one 9V battery (not included). Skill Level 2.

**C6715 \$7.85 ea.**

## 1 IC Speaker AM Radio Kit

This radio kit operates from a sophisticated radio IC and has a powerful antenna coil with a high grade ferrite core. Volume control, two transistor audio amp with power transistor. Operates on 9V battery (not included). Skill Level 1.

**C6749 \$15.55 ea.**

## Two IC Speaker AM Radio Kit

Uses a sophisticated radio IC and has a powerful antenna coil with a high-grade ferrite core so no external antenna is needed. It has deluxe features including a volume and tone control and a powerful IC audio amplifier which drives the speaker. It has great reception and lots of volume! Operates from one 9V battery (not included). Skill Level 1.

**C6750 \$19.50 ea.**

## AM Microphone Broadcast Station Kit

Be a DJ on any radio. Kit contains high gain electric microphone and two transistors. It also has a RCA jack to connect to your tape recorder or CD player. Operates on 9V battery (not included). Skill Level 1.

**C6752 \$10.50 ea.**

## Metal Locator Kit

Transistorized circuit uses sensitive circuit and coil. Can detect up to 5" away depending on size of object. The metal locator detects metal by a shift in tone which is transmitted to a standard portable AM radio (you supply). Operates from 9V battery (not included). Skill Level 1.

**C6742 \$5.75 ea.**

## Manual Siren Kit

Produces loud upward and downward wail of a "police" siren as push-button is depressed. Good for sound effects. Uses 9V battery (not included). Skill Level 1.

**C6382 \$7.80 ea.**

## Super Siren Kit

Loud irritating siren features 1 special IC that contains 3 transistors and a high gain power amp. Uses 9V battery (not included). Skill Level 2.

**C6474 \$10.50 ea.**

## Secret Squealer Kit

This is a strange and amusing kit. It emits a strange high pitched squeal once every minute. It is pretty difficult to find because it only squeals for a second every minute. Uses one 9V battery (not included). Skill Level 1.

**C6379 \$6.50 ea.**

## Smallest Variable Strobelight Kit

Features an on board control to adjust the flash rate from about 35 to 240 per minute and it operates from a 9V battery (not included). Requires only about 60-65ma to operate. Size of PC board is 1 13/16" x 1 1/2". Skill Level 2.

**C6844 \$12.95 ea.**

## 9V DC Strobe Warning Flasher Kit

Compact strobe flasher produces brilliant flashes of white light. Great safety device. Skill Level 2.

**C5175 \$16.95 ea.**

## 12VDC High Power Strobe Kit

Brilliant xenon horseshoe strobe tube flashes at a rate you control, from 60 to 350 times per minute. Operates from 12V DC. Skill Level 2.

**C6460 \$28.75 ea.**

## Dual Strobe Light Kit

Two straight xenon strobe tubes alternately flash at a fixed rate of about 120 per minute. Operates from standard 120V AC. Skill Level 2.

**C4622 \$15.75 ea.**

## 120VAC Strobe Light Kit

Variable speed, 120 to 200 flashes per minute. Very popular kit. Great for parties, dances, etc. Operates on 120V AC. Skill Level 2.

**C3071 \$14.30 ea.**

## 120VAC Brilliant Strobe Kit

Popular kit features horseshoe shaped xenon flashtube. Variable rate from about 120 to 300 flashes per minute. Skill Level 2.

**C4823 \$18.25 ea.**

## 120VAC High Power Strobe Light Kit

Deluxe strobe light kit has control to vary flash rate from 60 to 300 flashes per minute. Uses horseshoe strobe tube and reflector. Operates from standard 120V AC. Skill Level 2.

**C4162 \$23.50 ea.**

## Laser Pointer Switch Kit

Control slide projectors, lights, sound sources, etc. during a presentation. Simply point your laser pointer at the large CDS cell and the kit responds by closing a set of relay contacts rated 1Amp at 120VAC. To turn off the item just aim the beam at the CDS cell again. Operates from an AC adapter (included). Skill Level 2.

**C6733 \$19.50 ea.**

## Laser Target Kit

Shine any laser pointer at this kit and a bright red star flashes when you hit it. Works at great range. Operates on one 9V battery (not included). Skill Level 1.

**C6739 \$7.25 ea.**

## Fantastic Simulated Laser Kit

Emits a small red circle about 10 feet away in a dark room. Great for safely simulating lasers in science projects. Uses 9V battery (not included). Skill Level 1.

**C6394 \$9.25 ea.**

## Infrared Transmitter Kit

Make your own "phasor gun" with this kit. Shoots high power IR pulse when button is pushed. Only works with C6392 kit (above below). Uses 9V battery (not included). Skill Level 2.

**C6393 \$8.99 ea.**

## Infrared Target Kit

Red diamond pattern made up of 4 red LEDs flashes when hit by infrared beam. Super sensitive - works with all IR guns available. Great for tag games. Uses 9V battery (not included). Skill Level 2.

**C6392 \$12.99 ea.**

## IR Genie On/Off Switch Kit

Control lights, music, radios, etc with any TV, VCR or IR remote. Red LED indicator, two IC circuit. Range is from 18 ft to 28 ft. Operates on a 9V battery (not included). Skill Level 2.

**C6748 \$12.95 ea.**

## IR Remote for Above Unit

Fully assembled remote with approximately a 22 ft range. Requires one 9V battery (not included).

**C6506 \$2.00 ea.**

## Remote Controlled Nightlight Kit

Simply aim any IR remote (that you already own) at this simple kit and 2 laser like brilliant LEDs light up and stay on for about 5 minutes. Uses one 9V battery (not included). Skill Level 1.

**C6777 \$6.50 ea.**

## Sound Wizard On/Off Switch Kit

Control lights music alarms etc with a clap of your hands. Contacts remain closed until you clap again. Utilizes a 3 IC circuit with LED indicator and DPDT 1 AMP Relay contacts operates on 9V battery (not included). Skill Level 2.

**C6754 \$12.95 ea.**



## Magic Christmas Tree Kit

When a 9V battery (not included) is connected, the bulbs on the tree blink all red then all green and then back to red again. Size of PC board: 2 1/2" x 2 5/8". Includes color label which you glue to the PC board. Skill Level 1.

**C6773 \$4.95 ea.**



## Flashing Christmas Trees Kit

Red and green LED Christmas trees flash alternately in this colorful kit. Operates on 9V battery (not included). Size of PC board: 3 5/8" x 1 7/8". Skill Level 2.

**C6711 \$9.25 ea.**



## Heart Throb Kit

How fast will your heart throb? This kit is made up of 36 jumbo red LEDs in the shape of a heart. It responds to your skin resistance through touch pads. Uses 9V battery (not included). Skill Level 2.

**C6410 \$12.99 ea.**



## The Haunted Pumpkin Kit

Here is the perfect kit to spice up your Halloween. In addition to alternately flashing its green LED eyes with its red LED nose, it also produces an eerie, spooky electronic sound from its piezo mouth. Uses one 9V battery (not included). Skill Level 2.

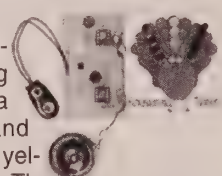
**C6783 \$8.95 ea.**



## Screaming Turkey Kit

Colorful kit makes a great addition to any Thanksgiving celebration. Produces a screaming turkey sound and the colorful red, green, and yellow LEDs light up and flash. The 2 IC circuit features 2 separate controls to adjust the sound and flashing speed. Uses one 9V battery (not included). Skill Level 2.

**C6784 \$9.50 ea.**



## Monkey Surprise Kit

Simply place a drop of water on the monkey's face, turn the arming switch to "on" and hide the Monkey Surprise Kit in the room. The kit will remain silent until the water on the Monkey's face evaporates. When it does, the kit will go crazy emitting a sound that is a mix between a crazed jungle bird and an irritated monkey. Operates on a 9V battery (not included). Skill Level 1.

**C6877 \$5.95 ea.**



## Secret Water Drip Kit

Anyone trying to get a good night's sleep when you hide this kit in the bathroom will have a tough time. When the lights go off it emits a realistic "drip drip" sound. Of course, when the victim turns the light on to check the faucet, the kit becomes quiet and they will find the faucet isn't dripping. When the light is turned off, the drip sound begins again. A fun and easy to build kit. Size of PC board: 2.2" x 1.7". Operates on one 9V battery (not included). Features 2 controls to adjust drip sound and rate. Skill Level 1.

**C6892 \$4.95 ea.**



## Light Spider Robot Kit

This amazing new robot uses its electronic brain to follow or find a light source (such as a standard flashlight). Using its drive motors, the Light Spider will scoot across any smooth hard surface (such as a linoleum floor or a wooden table top) looking for light. While searching, a LED array on the front of the robot lights up and blinks. You will be amazed at the Light Spider's ability to follow light. Operates from one 9V battery (not included) and uses a transistor brain to control its 2 motors. The PC board and motors can be customized by painting them before assembly. Size of PC board is approximately 3.75" x 2.5". Skill Level 2.

**C6886 \$11.95 ea.**

One of Our  
Most Popular  
Kits!



## CE2S Soundseeker Robot Kit

The CE2S uses an IC and 7 transistor circuits with adjustable controls for motor activation times and sound sensitivity. Uses a sensitive microphone which constantly "sniffs" the area for sound. When it detects it, the colorful LEDs at the front of the robot flash and the robot stops for a second and then changes direction. Operates from a 9V battery (not included). Designed to travel on any smooth surface (not carpet or pavement). Size approximately 4.9" L x 4" W. Skill Level 3.

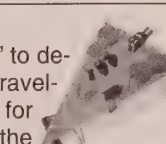
**C6882 \$32.95 ea.**



## Mr. Edgey Robot Kit

Mr. Edgey robot kit uses his "brain" to detect the edge of the surface he is traveling on. He uses a vibrating motor for motion and has an LED sensor at the front to detect "the edge". As soon as the front of Mr. Edgey passes the edge of a surface, the motor shuts down and the LED stays on indicating "the edge". Have contests with other "edge" robots to see which one gets to the edge first, or which one is not adjusted properly and falls off the side first. Robot comes with built-in rechargeable batteries and wall adapter AC charger (no batteries to buy). Size of PC board: 3" x 2" (triangle). Skill Level 2.

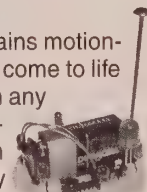
**C6896 \$12.95 ea.**



## Alien Warbot Robot Kit

Activated by IR energy, this kit remains motionless until it detects IR energy. It will come to life when you press random buttons on any TV/VCR remote or by our IR Activator Robot Kit (to the right). When activated, it vibrates/scoots on any smooth surface and also flashes 7 bright LEDs. Movement stops as soon as the source of IR energy stops. Operates from one 9V battery (not included). Round PC board is 2 3/4" in Dia. Skill Level 2.

**C6870 \$14.95 ea.**



## IR Activator Robot Kit

Our special IR Activator Kit vibrates and scoots while flashing 1 red LED and 6 IR LEDs. If placed near an Alien Warbot, the IR Activator Robot will cause the Warbot to immediately come to life and either move towards it to attack or away from it to run! This kit is not activated by IR energy, in fact its job is to produce crystal controlled IR energy to activate IR sensitive robots. Operates from one 9V battery (not included). PC board is 2 3/4" Dia. Skill Level 2.

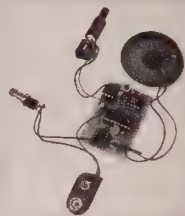
**C6871 \$15.95 ea.**



## Deluxe Ultrasonic Sniffer Kit

Did you ever wonder about the limitation of human hearing? At best, we can only hear from about 20Hz up to 20,000Hz, and most of us can't even hear sounds past 15,000Hz. Our Deluxe Ultrasonic Sniffer Kit uses a frequency division 4 IC circuit to convert all ultrasonic frequencies up to 150kHz to an audible frequency we can hear. Now you can hear what a dog whistle sounds like. Shake several coins or keys and you'll be amazed at the sound! Early TV remotes and today's digital distance measuring devices use ultrasonic frequencies. It can even be used to check for high pressure air leaks and can be used to listen to some mammals that produce ultrasonic sounds. This deluxe kit comes complete with a case with speaker and operates on one 9V battery (not included). Size of case: 4.8" x 3.3" x 1.2". Skill Level 2.

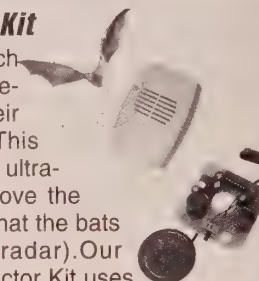
**C6897 \$24.95 ea.**



## Deluxe Bat Detector Kit

Bats use echolocation which allow them to navigate, detect objects, and find their prey in total darkness. This "echolocation" consists of ultrasonic signals (signals above the range of human hearing that the bats send and receive like radar). Our amazing Deluxe Bat Detector Kit uses a 4 IC frequency division circuit to convert these ultrasonic frequencies to audio frequencies (in the range of our hearing). Not only does our Deluxe Bat Detector Kit have a built-in speaker to produce the sounds, but it also flashes a bright green LED that is in sync with the sound. Our bat detector works with all bats and operates on one 9V battery (not included). Complete with attractive 3.5" x 2.5" x 1.4" case. Skill Level 2.

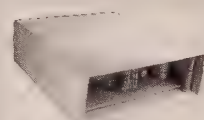
**C6899 \$29.95 ea.**



## Deluxe Professional Xenon Strobe Kit

Attractive and powerful xenon strobe kit comes complete with a custom designed case. Features operation from 120VAC, variable flash rate speed control, long life horseshoe xenon strobe tube and sturdy beige case with clear front lens. This high quality kit has everything you need to make a reliable professional quality xenon strobe that is perfect for parties, dances, theatrical effects, attention getters, etc. Complete with all parts, PC board, case with lens, knob, instructions and power cord. Designed for heavy duty use with both thermal protection and overload fuse protection. Size about 6 1/8" W x 2 1/8" H x 6 3/4" Deep. Skill Level 2.

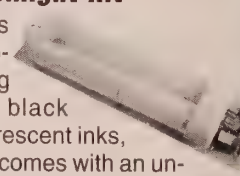
**C6888 \$26.95 ea.**



## Battery Operated Blacklight Kit

Here's an unusual kit that is just the thing for finding fluorescent minerals, detecting insects that glow under black lights, reading invisible fluorescent inks, etc. Completely portable kit comes with an unfiltered large "U" shaped black light tube and efficient solid state drive circuitry. Features control to vary the brightness and lightweight portable design. Size of board: 7" x 1.8". Operates from 6VDC (battery not included). Skill Level 1.

**C6889 \$10.95 ea.**





## Regulated Triple Output DC Power Supply Kit

Great for use in a laboratory, on a test bench, or for experimentation. This power supply is 3 variable power supplies in one unit. It features  $\pm 1\text{VDC}$  to  $\pm 15\text{VDC}$  @ 400ma and +1V up to 21VDC @ 1Amp. Uses IC voltage regulator and a powerful transformer for reliable operation. Operates from 120VAC, and features 3 separate controls to adjust the 3 separate voltages. Size of PC board: 7" x 3.9". Complete with all parts, PC board & instructions. Skill level 2.

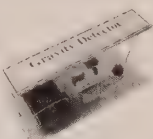
**C6895 \$24.95 ea.**



## Gravity Detector? Kit

This kit detects gravity? Well, not really- But what it does do is remain in an off state until a curious person lifts up the kit to study it. The "Gravity Detector" has a CDS cell underneath the board that activates when the board is lifted and gives the "curiosity seeker" a mild electric shock from the "handle" attached to the board. A great practical joke item! Uses IC, SCR and FET circuitry. Operates on one 9V battery (not included). Size of PC board: 4" x 2". Skill Level 2.

**C6894 \$9.95 ea.**



## Cosmic Poppers Kit

This very unusual kit emits random pops and random explosions of bright white light when it is in the dark (kit has a CDS cell to sense the absence of light). Features SCR and CDS circuitry with 3 bright lamps and a piezoelectric speaker. Easy to build and it creates a spectacular display. Size of PC board: 2.9" x 2.4". Operates on 2 AA batteries (not included). Skill Level 1.

**C6893 \$6.95 ea.**



## Binary Counter (Logic Basics) Kit

This kit counts in binary numbers and displays the binary number by red LEDs. A LED turned on is a "1" and off is a "0". The counter increases by one number each time the button is pushed. It also can count automatically by holding the button down. Teaches logic principles and binary counting. This kit features 7 red LEDs, count button, clear button and 2 IC circuit. Counts from "0" up to "127" in binary numbers. Can be used alone or can be connected to the Decimal Display Kit. Operates from 9V battery (not included). Size of circuit board: 3.6" x 3". Skill Level 3.

**C6359 \$11.95 ea.**



## Decimal Display Kit

The Decimal Display Kit counts and displays decimal numbers from 0 to 99. Its primary function is to be connected to the Binary Counter Kit to display the decimal number equivalent of the binary number shown on the Binary Counter Kit. Features IC circuitry and two bright 7 segment LED displays. Operates from one 9V battery (not included). Size of board: 3" x 3.25". Skill Level 3.

**C6360 \$12.95 ea.**



## "Blinder" LED Flasher Kit

This kit features 3 crystal clear special LEDs which create brilliant flashes of orange-red light. The light output of this flasher kit can even be seen in direct sunlight. Very Bright! Great for joggers, bicyclists, warning markers, etc. Size of PC board: 2" x 1.4". Operates on one 9V battery (not included). Flash rate is adjustable with the built-in trimmer potentiometer. Skill Level 1.

**C6891 \$3.99 ea.**



## Magic Color LED Sequencer Kit

Produces brilliant moving "red dots" at first. After the 5 LEDs sequence red, the same LEDs produce 5 "green dots" in sequence. The pattern repeats itself over and over. Features speed control. Operates from one 9V battery (not include). Skill Level 2.

**C6863 \$7.95 ea.**



## Telephone Ring Flasher Kit

Here's a useful kit to prevent missed phone calls when the TV or stereo is a little too loud. Simply plug the modular phone cord on this kit into any phone jack. Now each time any phone in the house rings a brilliant red light from 5 red LEDs will flash. Operates for months on one 9V battery (not included). Comes with all parts, PC board and instructions. Size of board 2 1/2" x 1 1/2". Skill Level 2.

**C6862 \$7.95 ea.**



## 25 in 1 Deluxe Magnetism, Motors & DC Circuits Exploration Lab

This fun, interesting and reusable Exploration Lab is perfect for any beginning student in Science, Electricity/Electronics, or Physics. Not only does this course introduce students to important concepts in magnetism, but also it introduces them to resistance, capacitance, diode action, LEDs, electromagnets, motors, switch operation, color code for resistors, series/parallel circuits, basic Ohm's Law, current flow measurement and even electricity generation.

This breadboard kit requires no soldering and is battery operated for safety. This course doesn't require any previous experience or knowledge. The instructor does not need to be involved if he or she chooses not to and the Lab will amaze and provide interesting experiments to motivate your students. This Lab can be used over and over again so it is very economical.

The 25 in 1 Deluxe Magnetic Lab covers some of the same concepts that are presented in our 33 in 1 Electronic Exploration Kit, however the 33 in 1 moves onto electronic concepts whereas this Lab concentrates on electricity and magnetism concepts and goes into more depth in these areas. It's best to have the students complete the 25 in 1 Deluxe Magnetism Lab first and then move on to the 33 in 1 Deluxe Electronic Exploration Lab Kit if possible, although each Lab can be used alone and neither Lab requires any previous knowledge of electricity!

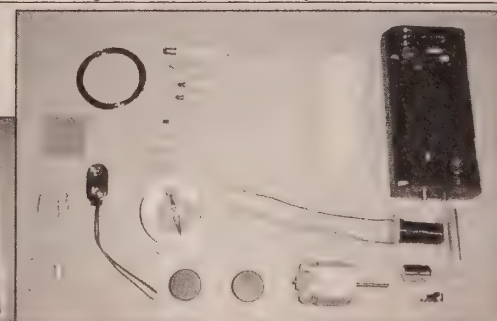
The Deluxe Magnetism Lab Instruction Manual features 25 exciting and fun to build learning experiments. Each experiment has an explanation, a hands on Lab that the student completes and a short quiz to help with the learning experience and reinforce important concepts.

Please look at the list of experiments on the right and you'll discover that the 25 in 1 Deluxe Magnetism, Motors and DC Circuits Exploration Lab is the best introduction to electricity and magnetism, at an affordable price, on the market today. Complete with all parts, universal breadboard and comprehensive Lab Manual. Requires 4 "C" batteries (not included). Skill Level 1.

**C6819 \$22.95 ea.**

Check out the experiments / learning activities in the 25 in 1. Each one is designed to progress in an easy-to-follow and logical manner. Each experiment explores both meaningful and interesting topics:

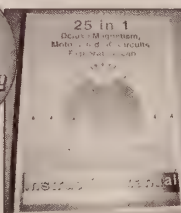
- 1- Permanent Magnets
- 2- Electromagnets
- 3- Compass Operation
- 4- Galvanometer
- 5- The Basic Electrical Circuit
- 6- Resistors / Color Code
- 7- Light a LED
- 8- The Diode
- 9- Series Circuits
- 10- Parallel Circuits
- 11- Series / Parallel Circuits
- 12- Current Flow in Circuits
- 13- Ohm's Law
- 14- Switch Action
- 15- Make a Simple Motor
- 16- Practical Motor
- 17- Complex Circuit
- 18- Insulator or Conductor
- 19- Flashing LEDs
- 20- The Capacitor
- 21- Electronic Coin Flipper
- 22- Swinging Compass
- 23- Stop / Go Motor with Indicators
- 24- Small Electricity Generator
- 25- Storage and Use of Electricity



**Requires No Soldering &  
Can Be Used Over and Over!**

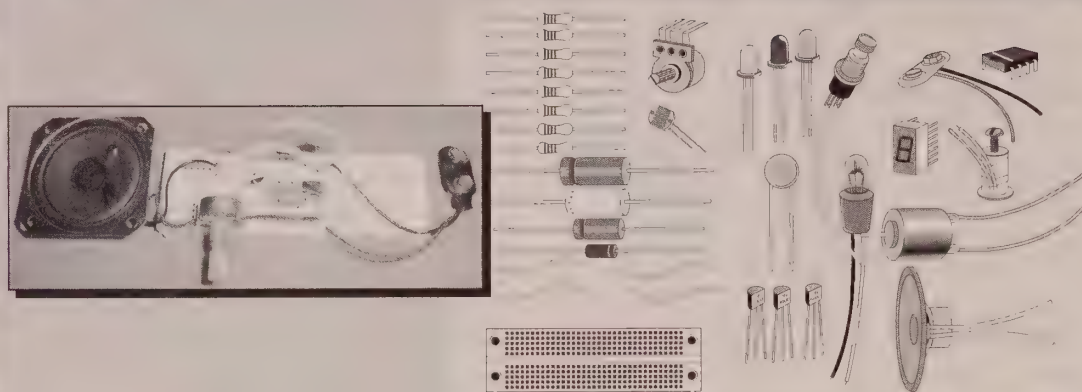
**A Tremendous Educational Value!**

**25  
Reusable  
Experiments!**





## 33 IN 1 DELUXE ELECTRONIC EXPLORATION KIT



This exciting new breadboard kit requires no soldering or previous electronic experience. The kit enables anyone to build 33 different electronic experiments and activities. It's applicable for use in elementary grades up through college and is safe to use. The kit is meant to be used over and over again to save money. Not only is this kit complete with everything you need, but also the instruction booklet is designed so that even younger hobbyists or students can understand the concepts.

The experimenter builds and studies the first 11 instructional circuits which include theory and data facts along with a simple pencil activity quiz. The remaining 22 experiments for the experimenter are fun to build electronic circuits that have a parts list, schematic and parts placement drawing. These give an ample introduction to electronic components and circuitry.

Breadboard type kits have been around for years, however, ours is the first to incorporate an introduction to Ohm's law, electromagnet circuitry, motor circuitry, transistor circuitry, IC circuitry and 7 segment display circuitry all in one kit. There is now no need to have several different breadboard kits. One kit covers almost all aspects of basic electronic concepts and components.

Not only does our 33 in 1 Deluxe Electronic Exploration Kit introduce various electronic educational concepts but it is also a fun and interesting motivational activity for anyone. Complete with all electronic parts, breadboard and instruction booklet.

Requires one 9V battery (not included).

**33-IN-1 DELUXE  
ELECTRONIC  
EXPLORATION KIT  
C6709 \$29.95**

## CHECK OUT THIS LIST OF ELECTRONIC LEARNING ACTIVITIES/EXPERIMENTS:

### Instructional Experiments

1. Resistor Color Code
2. Ohm's Law and The Basic Electronic Circuit
3. Parallel Circuit with Lamp
4. Diode Action
5. Light Emitting Diodes
6. Electromagnetism
7. Capacitance
8. Transistor Switch
9. Variable Resistor LED Dimmer
10. DC Motor Experiment
11. Transistor Oscillator

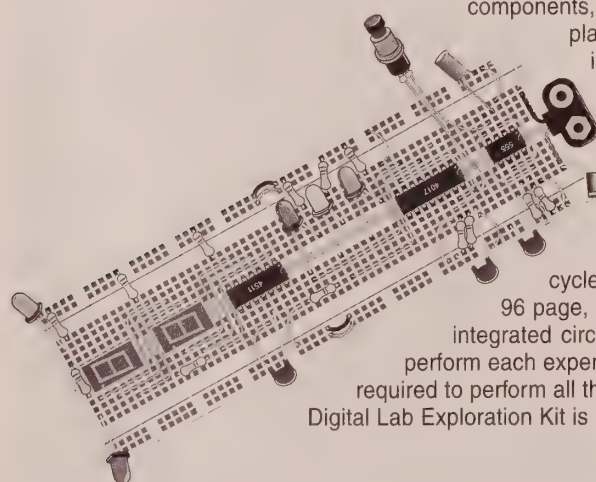
### Electronic Construction Activities

12. 7 Segment Display Circuit
13. SCR Latching Switch
14. Conductor Identifier
15. 2 Transistor Audio Oscillator
16. Continuity Tester
17. Multivibrator LED Blinker
18. Insanity Alarm
19. Light Controlled Bird
20. Code Practice Oscillator
21. Magic LED Light
22. Water Alarm
23. Ticking Clock Sound
24. Phasor Ray Sound Generator
25. Emergency Siren
26. Adjustable Blinking Light and Sound
27. Timer with LED
28. Electronic Motor Speed Control
29. IC LED Flasher
30. IC Adjustable Frequency Sound Generator
31. IC Light Activated Wake Up Alarm
32. IC 2 Color LED Flasher
33. IC Burglar Alarm

## 35 IN 1 DELUXE DIGITAL LAB EXPLORATION KIT

This lab does not require soldering, is reusable, and contains 5 lessons and 30 meaningful and exciting digital experiments. The booklet is fully illustrated with easy-to-follow pictorial diagrams and schematics. It is designed so that the teacher does not need to be involved (unless he or she desires to be). It is applicable for use in junior high grades up through college.

All experiments operate on one 9V battery (not included) so there are no dangerous voltages involved. Compared to other similar digital labs, you will find that this lab is far superior in that it contains a wider variety of digital components, including a double binary counter and two 7-segment displays, allowing the students to build "0 to 99" digital counters instead of only "0 to 9". This lab also includes LEDs of three different colors (red, green, and yellow), and uses a uniform prewired breadboard system which is applied in each experiment, along with reverse polarity protection and a switch wire to prevent damage to the ICs or battery snap.



This lab also covers more digital topics such as Boolean algebra, timing diagrams, frequency and duty cycle formulas, troubleshooting techniques. The kit includes a 96 page, fully illustrated manual, a large solderless breadboard, 6 integrated circuits, a CDS photocell, plus all other parts necessary to perform each experiment. Just supply a fresh 9V battery and nothing else is required to perform all the experiments in the book. The Complete 35 in 1 Deluxe Digital Lab Exploration Kit is self-contained and ready-to-use!

**35-IN-1 DELUXE DIGITAL LAB  
EXPLORATION KIT  
C6721 \$45.50**

**CHECK OUT ALL OF THE LESSONS AND EXPERIMENTS!**

### Tips On Building The Experiments

#### The Universal Solderless Breadboard

Lesson 1: Introduction To Digital Electronics.

Lesson 2: Components, Gates and IC's.

Lesson 3: Combinational & Sequential Circuits, Boolean Algebra And Timing Diagrams.

Lesson 4: The Binary Numbering System.

Lesson 5: Troubleshooting Techniques

Exp. 1: The Logic Probe: "The Tool".

Exp. 2: The YES Logic Circuit: "The Buffer".

Exp. 3: The NOT Logic Circuit: "The Inverter".

Exp. 4: The AND Logic Gate.

Exp. 5: The OR Logic Gate.

Exp. 6: The NAND Logic Gate

Exp. 7: The NOR Logic Gate

Exp. 8: Building The Six Basic Logic Gates Using Only NOR Gates

Exp. 9: "The Clock"- Astable Multivibrator

Exp. 10: The 555 Timer IC.

Exp. 11: "The Timer" - Monostable Multivibrator

Exp. 12: "The Flip-Flop" - Bistable Multivibrator

Exp. 13: Reaction Challenge Game

Exp. 14: The Binary Counter/Divider

Exp. 15: Manual Binary Counter

Exp. 16: The BCD Counter (Decade Counter)

Exp. 17: Touch Activated ON/OFF Switch

Exp. 18: Seven Segment Display Decoder

Exp. 19: "0 to 9" Counter With Display

Exp. 20: Lucky Number Generator

Exp. 21: Electronic Die Game

Exp. 22: 0 To 9 Photoelectric Counter

Exp. 23: Sequential LED Flasher

Exp. 24: Triple Answer Decision Maker

Exp. 25: "10 by 10" Reaction Game

Exp. 26: Brightness Control Touch Switch.

Exp. 27: Macho Meter.

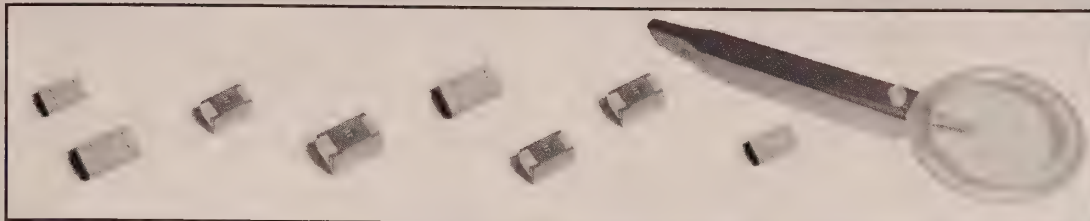
Exp. 28: "Go for the Gold" Game

Exp. 29: 0 To 99 Counter With Display

Exp. 30: 0 To 99 Photoelectric Counter



## Intro to Surface Mount Technology



This Chaney Electronics Training Course will introduce you to the latest assembly technology known as "Surface Mount Technology". Surface mount technology uses tiny leadless components, known as surface mount devices (SMDs) which are quickly replacing standard electronic components. Currently most electronic equipment incorporates this exciting new technology.

By completing this course, you will learn concepts about surface mount technology (SMT) such as: the different types of surface mount devices (SMDs), the various types of surface mount assemblies, the automated soldering methods, and all of the stages of the manual and automated assembly processes of surface mount circuits. You will gain experience identifying, soldering and using surface mount devices by physically building an actual working surface mount technology project.

This course is the perfect introduction to SMT and does not require any previous knowledge of this topic. The course is self-contained and reusable with the exception of the SMT project kit: "Deluxe SMD Learn to Solder Kit" (Stock #C6719) which may also be purchased separately. A small soldering iron with a fine point and some solder is all that is required to build the included kit.

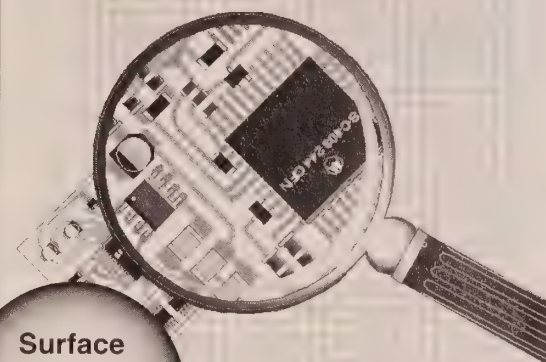
We are offering this training course at an exceptional value. So please don't delay, order your Introduction to SMT Course today!

Introduction to Surface Mount Technology Training Course with Experimentation and Project Building comes with detailed instruction manual, identification parts (both SMD and Standard), one "Deluxe SMD Learn to Solder Kit," and a magnifier with tweezers (pictured above).

**C6725 \$28.95**

Chaney Electronics

## Introduction to Surface Mount Technology



**Surface Mount Technology is Here!**

## Knobs

### Deluxe Large Knob Set Screw Type

Made for the government, this black knob features a white pointer. Made for 1/4" Shafts. Overall diameter is about 1.48" inches. Features metal internal insert. Has one set screw. Height of knob about 0.96". Brand new. - High quality!  
**G14418 99¢**

### Deluxe Knob Assortment

These are 7 of the higher quality military and precision type knobs. All have set screw. Some are for the 2nd control on a dual control (has hole all the way through it). For 1/4" and 1/8" shafts.  
**G5303 \$5.00**

### Nice Pointer Knob

Standard black bakelite pointer knob as found on many pieces of industrial equipment. Fits all 1/4" shafts and has set screw. Shiny black color with white pointer stripe.  
**G9463 \$1.00**

### Deluxe Military Set Screw Knob

This glossy black knob with brushed aluminum insert was made for the government for military equipment. It has a brass inner part with 2 set screws. Designed for 1/4" dia. shaft. Has white indicator on one side. Diameter (excluding pointers) about 1.04". Height of knob about 0.58". Blowout price! Brand new.  
**G14419 2/99¢**

### Raytheon Military Precision Made Knobs (set screw types)

These were made by Raytheon and other high quality companies for use in military equipment. They are some of the best quality knobs you can purchase. Each has at least one set screw and some have two. All are brand new and 100% prime in every detail. We have types for 1/8" shafts and 1/4" shafts. All have metal interior sleeves for long life with plastic outer surfaces.

Fig.	Shaft	Description	Stock	Price
A	1/4"	Black/Silver	G14061	2/\$1.00
B	1/4"	Black	G14473	\$0.99
C	1/8"	Black w/white pointer	G14474	\$0.99
D	1/8"	Black pointer	G14475	\$0.99
E	1/8"	Black/Silver	G14476	\$0.99
F	1/4"	Gray	G14477	\$0.99
G	1/4"	Red	G14478	\$0.99
H	1/4"	Black w/White pointer	G14480	\$0.99
I	1/4"	Black/Silver	G14481	\$0.99
J	1/4"	Black/Silver, White pointer	G14482	\$0.99

### Knobs for Potentiometers

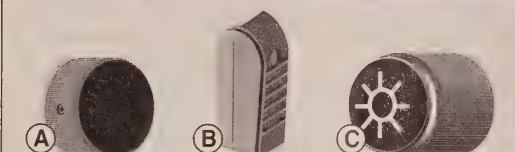


Fig.	Shaft	Description	Stock#	Price
A	1/4"	Black	G8422	\$2.00
B	1/4"	Black	G7907	\$1.75
C	1/4"*	Blk/Chrome	G7228	\$1.00

\*Indicates that this knob must be used with a "D" shaped shaft.

### Set Screw Lever Knob

Black bakelite knob features set screw for mounting to any standard 1/4" dia. shaft. Lever type knob as found in older test equipment. New.  
**G13504 \$2.00 ea.**

### High Quality Knob Assortment

Great assortment of four high quality set screw knobs some with brushed aluminum accents. All are black in color and fit standard 1/4" shafts. Brand new and very nice. Knob assortments will vary from picture as there are many types!  
**G5086 \$2.00**



## High Quality Fluorescent Magnifier Desk Lamp

Bright white fluorescent desk lamp features large 3 Diopter optical magnifier lens, 22Watt circline fluorescent tube, and weighted base with inches and mm markings. This lamp has all types of tilt/height adjustments to allow you to work on your small projects with ease. Once you try this, you'll never want to be without it! Base size is 7 1/4" x 11 1/2". Height is about 14". Overall diameter of top magnifier/tube assembly is about 8 1/2". Black color-brand new in retail box. Operates on standard 120VAC.

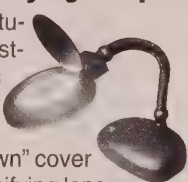
**G12819 \$69.95 ea.**



## Desktop Fluorescent Magnifying Lamp

Great for hobbyists, engineers, students, this lamp features an adjustable gooseneck with a glass magnifying lens and a bright white 5"Dia. fluorescent tube. The top of the lamp has a "flip down" cover if you do not wish to use the magnifying lens. Very stylish black base is only about 7" x 5 3/4". No installation needed. Brand new in factory box.

**G14041 \$19.99 ea.**



## Super Blacklight

Super power blacklight glows a deep purple and brilliantly lights blacklight posters, invisible ultraviolet inks, some currencies, certain minerals, etc. Unit is complete with a sophisticated circuit board and was designed for use by a cosmetic company for use in detecting skin problems. High quality completely assembled unit is about 7" L x 3" W x 2 1/4" D. It uses a 12VDC 500ma adapter (included) and its circuitry allows the unit to be turned on for one minute then it resets after another minute. The circuitry could possibly be modified for continuous on, however, we don't have any info. on how to do this or if it is even possible. We will tell you that the output of this is very bright and covers all of the longwave spectrum. Brand new in manufacturer box. Very unique and worth many, many times our price.

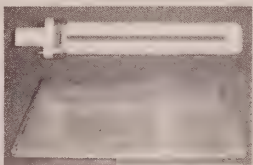
**G9589 \$6.95 ea.**



## 13 Watt OSRAM White Fluorescent Bulb with Holder & Lens

These were made for a Solar powered lighting system and consists of a 13watt osram bulb packaged inside a retail box (Part#F13TT/27K). The box with the tube inside of it has been placed inside of a 5 1/4" x 11 1/4" x 1 1/2" metal and plastic lens box with built in light socket. The lens box has 2 color coded wires coming out of it. To use this you need to remove the 2 screws which hold the lens cover onto the metal base, then take the tube that is packed inside of lens out of its box and plug it into the light socket. You can then reassemble the lens box and connect the 2 color coded leads to your ballast or fluorescent driver circuit. Brand new - very heavy duty - well made.

**G13236 \$6.95**



## 3V Micro Lamp and Reflector

Tiny 3V lamp projects a brilliant white light from 7/8" Dia polished reflector. Overall size is about 1" long x 7/8" Dia. Brand new in plastic bags.

**G9725 \$1.00 ea.**



## Bright Mini Lamp

Small lamp is about .4" Tall x .2" Dia. and has 0.8" Long wire leads. It begins to glow at 6V, and glows brilliantly at 24V. Brand new on tape and reel. Cold filament resistance is about 13.5Ω.

**G13840 25/\$1.00**



## Tiny Grain of Wheat Lamp

Tiny grain of wheat lamp with 1" long wire leads. Size of bulb about .12" Dia. x .25" Tall. Operates on 3 to 9 volts.

**G13472 4/\$1.00**



## Flashing Lamp

Small screw in type base lamp features operation from 2.5V up to 3VDC and flashes brightly. Made by GE, type 401X.

**G14305 3/99¢**



## Powerful 6V 6Watt Lamp

Powerful lamp features built in magnifying lens and solder terminals on base. Size about .9" L x .5"Dia. Has screw base and heavy duty construction.

**G1830 2/\$1.00**



## Small 1.5V Flashlight Bulb

Small incandescent bulb is only 0.12" Dia. x 0.39"H (excluding leads). Glows brightly when 1.5V is applied. Brand new!

**G14472 10/99¢**



## Standard Flashlight Bulb

Small clear glass round flashlight bulb operates from 1.5V and has a screw base. Perfect for replacement.

**G3811 3/\$1.00**



## Tiny Neon Lamp with Insulated Leads

Tiny glass neon lamp designed to operate from 120VAC when used with a 47K series resistance. Great for triggering strobe lights or as AC power on indicators. Neon bulb is only .6" long and has 3" insulated wire leads.

**G13119 4/\$1.00**



## Super Bright T1 2PIN Mini Bulb for 1 Cell Flashlights

Replaces all miniature incandescent bulbs in 1 AA or 1 AAA flashlights. High brightness type. Worth over \$1.00 each.

**G9306 4/\$1.00**

**G9306A 100/\$20.00**

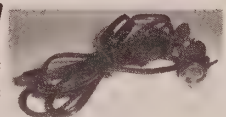
**G9306B 1000/\$150.00**



## Lamp with Cord & Switch

Great item to make color organs or decorative lights. Consists of a 5' line cord with built-in on/off switch and a snap in C7 120VAC lamp installed. Cord plugs into standard AC outlet and even features a built-in fuse in the plug for safety.

**G2121 \$1.00**



## 250V 7.5 Watt E14 European Base C7 Clear Bulb

Full box of 25 C7 clear bulbs designed for E14 screw in lamp holders. These produce a dim glow on 125VAC and glow brightly at 240VAC. Factory carton of 25 bulbs. Blowout price!

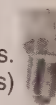
**G14113 99¢/Box**



## Flashlight Lamp PR15

Standard bulb used in many common flashlights. These are very bright at 4.8V (3 cell flashlights) but also works fine in the 2 cell models.

**G6744 2/\$1.00**



## Popular OSRAM 64415S 12V 10W Halogen Bulb

This popular type OSRAM halogen bulb is found in many hi-tech equipment lighting devices. These are brand new and packaged inside a sealed cellophane envelope inside a fully marked factory box. We were told that these sell for up to \$16.00 each.

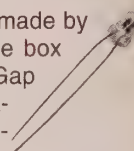
**G13805 \$1.99 ea.**



## Spark Gap Neon Tube

Small neon tube with long leads was made by NHK of Japan and has a label on the box that reads "GD412-200V±20% Spark Gap Neon". We are not sure of the application but we suspect the gas inside ionizes at 200 volts.

**G14354 3/99¢**



## Tiny But Bright Rectangular Fluorescent Lamp

Bright white fluorescent lamp is only .85"L x .78"H (excluding glass seal tip) x .18" Thick. This lights up a nice bright white when connected to a high voltage. Its original use was for backlighting a small LCD display and it probably was a very costly item. We connected it to our small (2 1/2" x 1 1/8") TDK 5VDC to high voltage inverter board and it produced a bright white glow. Lamp has peel off backing to expose 2 adhesive pads on back for "press on" mounting, however this should be used in conjunction with the terminals to hold lamp in place. New-prime.

**G13406 \$1.99 ea.**

TDK 5VDC-High Voltage Inverter Board to drive above lamp.

**G12866 \$1.49 ea.**



## Fluorescent Ballast

Replacement ballast for fluorescent fixtures. Ballast is brand new and contain no PCB's. All are boxed and have full length leads and for 120VAC. Lights one 30 or 40Watt tube Model# 1033. Size 6 1/2" x 1 7/8" x 1 5/8".

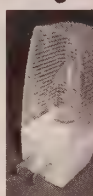
**G2252 \$8.95 ea.**



## First Alert 120VAC Automatic Night Light

Plugs into standard 120VAC outlet and turns on automatically at night then off in the morning. Uses only 4Watts of electricity but provides a nice light for security. Buy several for use in bedrooms hallways, etc. Brand new!

**G9333 \$2.00 ea.**





**ELECTRONIC  
GOLDMINE**

4 European

# ***ELECTRONIC GOLDMINE***

**"U" Tube Unfiltered Blacklight Tube**



# LEDs-T1 (3mm)

**ELECTRONIC  
GOLDMINE**

## Super Bright All Color LED Package (15 pieces)

Package of 5 yellow, 5 red and 5 green T1 LEDs (15 LEDs total). Each LED has a see thru red, yellow or green lens. Each LED has been installed in a black plastic block with the leads bent over flush to allow for surface mounting if desired, however the 3/8" Long leads can be bent out straight and the LED removed for regular mounting. All LEDs are prime bright types!

**G14119 \$1.00/package**

## Sharp GL4PR8 4mm Red LED

See thru red red lens LED by Sharp. Features full length leads and 4mm Dia. Lens.

**G14669 25/99¢**

## Rainbow of Colors T1 LED Assortment

You get 4 bright colorful T1 3mm LEDs: one blue, one red, one green and one yellow. All prime and beautiful to look at when lit up!

**G4256 \$1.00**

## LEDs- T1 3/4 (5mm)

### Powerful 5MM IR LED

Pale see-thru grey case 5mm (T1 3/4) IR LED with full length leads. Operates from 2.8VDC.

**G13661 5/\$1.00**

### Blinder White LED 7000MCD

This is the brightest 5mm white LED we sell. It has a minimum output of 7,000 MCD@4.0VDC. Viewing angle is 15°.

Prime factory stock. Special price!

**G13875 \$1.99 ea.**

### Blinding White LED 5000MCD

This is the brightest white LED we have. It produces a brilliant white output and operates from 3.2V up to 4VDC. Prime full length leads. Crystal clear lens.

**G14420 99¢ ea.**

### 3000 MCD Ultrabright White LED

Crystal clear lens 5mm T1 3/4 LED lights up with such a brilliant beam that you can't look directly at it. These are factory prime LEDs with full length leads. Current 20ma, forward voltage 3.2V to 4.3V, min MCD 2000 - maximum 3500 (typical 3000). Viewing angle 15°. InGaN white color. As with almost all white LEDs, there is a slight bluish output.

**G12703 \$2.49 ea. • 10/\$23.00**

### The Blinder 5MM White LED

This white LED will have you seeing "spots" before your eyes if you look at it! It was made for an OEM that was making outdoor signs. It is brand new and features a 5MM (T1 3/4) crystal clear lens and long leads. We do not have the MCD rating but we suspect that it is over 3000. Operates on 4.0VDC. Brand new! Lowest price around on this high output white LED.

**G13177 \$1.99 ea.**

### Nichia Beautiful Diffused Lens White LED

Type NSPW515BS by Nichia is a premium white LED with a milky diffusion 5mm (T1 3/4) Lens. It has a viewing angle of 70° and the output is a bright 480MCD. Requires 3.6V to 4.0VDC @ 20ma for operation. This LED is a very high quality unit and because of this and its diffusion characteristics it's widely used in book lights, LCD screen illuminators, product illuminators, etc. This LED is factory prime with full length leads on tape and reel.

**G13255 \$1.79 ea.**

### Clear Lens Green Blinking LED

Water clear T1 3/4 (5mm) LED blinks bright green when 5 to 9VDC is applied. Prime, full length leads.

**G13832 2/\$1.00**

### Ultrabright Jumbo Green LED

Crystal clear case 5mm jumbo LED lights up a bright green. Great for applications requiring a bright attention getting light. Long lead prime units.

**G9979 10/\$1.00**

**G9979A 100/\$9.00**

### Dialight Bright Green T1 3/4 5mm LED

Very nice quality 5mm T1 3/4 LED by Dialight part# 561-2201-070 comes with a removable standoff. Features a large viewing angle from a green diffused lens. Factory sealed bag.

**G14551 Bag of 25/\$2.49**

### HP High Quality T1 3/4 5mm Green LED

Diffused green lens LED by HP features long leads and nice green glow. Type HLMP 3507 features a luminous intensity of 5.2 mcd @ 10mA. Viewing angle 60°. These are factory prime high quality LEDs.

**G13113 10/\$1.00**

**G13113A 500/\$35.00**

### 3000 MCD Ultrabright Blue LED

Crystal clear lens 5mm T1 3/4 LED lights up with such a brilliant beam that you can't look directly at it. These are factory prime LEDs with full length leads. Current 20ma, forward voltage 3.2V to 4.3V, min MCD 2000 - maximum 3500 (typical 3000). Viewing angle 25°. Wavelength= 470nm.

**G12702 \$2.39 ea.**

### Brilliant Blue T1 3/4 5mm LED

Super bright T1 3/4 5mm blue LED features long leads and crystal clear case. This LED almost hurts your eyes if you look at it! Operates on 3.2 to 4.3V. Prime beautiful LED.

**G14753 \$1.29 ea.**

### Jumbo T1 3/4 Orange Resistor LED

Simple to use LED, produces a nice orange glow when connected directly to a 9V battery. No resistor needed as it already has it built into the LED. Orange lens. Works from 6VDC up to 14 VDC.

**G5613 4/\$1.00**

### Clear Lens Yellow Blinking LED

Water clear T1 3/4 (5mm) LED blinks bright yellow when 5 to 9VDC is applied. Prime, full length leads.

**G13831 2/\$1.00**

### 2500MCD Bright Yellow T1 3/4 LED

Water clear T1 3/4 (5mm) case LED by Agilent Technologies lights a blinding yellow color. Brand new on tape and reel at a blowout price! Part # QLMA-DL86.

**G12860 2/\$1.25**

**G12860A 10/\$6.00**

**G12860B 100/\$55.00**

### Brilliant Orange-Red LED

Clear lens T1 3/4 5mm LED produces a blinding red/orange light. Minimum output 4000 MCD. Prime with full length leads.

**G14341 5/99¢**

### Ultrabright Orange-Red 4000MCD LED

Blinding output T1 3/4 Jumbo LED made by Stanley for an Outdoor electronic sign making OEM. These are prime brilliant LEDs that can be seen in daylight. Crystal clear lens, 5mm size, with full length leads. Viewing angle 25°. Forward voltage 2.1V. Prime.

**G12766 5/\$2.00**

**G12766A Factory Bag of 1000/\$250.00**

### Pure Orange 5mm T1 3/4 LED

Very nice clear lens LED lights up a nice orange color-not red-orange. Full length leads.

**G14559 10/99¢**

### HP 2500 MCD Orange LED

Super bright clear lens LED made by HP features a blinding orange output. Size is 5mm (T1 3/4). HP quality.

**G12867 \$1.00 ea.**

### 2500 MCD Ultrabright Red LED

Crystal clear lens 5mm T1 3/4 LED light up a brilliant red beam. Factory prime LEDs with full length leads. Forward voltage 2.1V. Current 20ma. Min MCD 2000 - Maximum 3000 MCD (typical 2500). Viewing angle 26°. Peak wavelength = 600nm.

**G12704 89¢ ea.**

**10/\$7.00 • 100/\$55.00 • 1000/\$450.00**

### HP Laser-Like LED

Type QLMP-3730.25 made by HP produces a brilliant red light from jumbo water clear magnifying lens. Size T1 3/4. These are very bright! Prime with 3/8" long leads.

**G8413 5/\$1.00**

### Ultrabright Large T1 3/4 5mm LEDs

Prime factory LEDs in a rainbow of colors! All have clear lens.

Stock#	Color	MCD	Voltage	Price
G12702	Blue	3000MCD	3.2 to 4.3V	\$2.39
G12703	White	3000MCD	3.2 to 4.3V	\$2.49
G12704	Red	2500MCD	2.1 to 2.7V	\$0.89
G12768	Yellow	3000MCD	2.3 to 2.8V	\$2.00
G12769	Green	3000MCD	3.2 to 4.3V	\$2.29



### Our Brightest 5mm Red LED

Clear lens 5mm LED illuminates a brilliant red when 3 volts is applied. Output must be several thousand MCD or better - we don't know. These are long lead prime LEDs at a blowout price!

**G13899 4/\$1.00**

**G13899A 1,000/\$80.00**

### Highly Visible 2 Element LEDs

Jumbo size (T1 3/4) LED contains two series connected LEDs in a see through case. By Toshiba and designed for bright visibility and impact. We have 2 different colors each requires 5VDC for operation.

Stock#	Color	Price
G6801	Amber	4/\$1.00
G6802	Yellow	5/\$1.00

### The Blinder Brilliant 5mm Red LED

These are blinding output 5mm (T1 3/4) clear lens LEDs. Each produces a brilliant red output with several thousand MCD output. These are prime LEDs on tape and reel with full length leads.

**G13713 5/\$1.00**

### HP Laserlike Brilliant Red LED

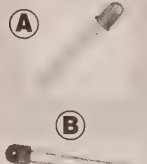
At 3VDC the output of this LED almost hurts your eyes. Great for when you need a real attention getter. Jumbo 5mm T1 3/4 water clear lens. Prime HP quality.

**G8757 5/\$1.00**

**G8757A 100/\$22.00**

### T1 3/4 Jumbo LEDs (5mm)

Stock#	Color	Lens	Brightness	Fig.	Price
G1005	Red	Diffused Red	Standard	A	7/\$1.00
G3297	Red	Diffused Red	Standard	B	12/\$1.00
G5566	Red	Clear	Superbright	A	3/\$1.00
G1007	Yellow	Diffused Yellow	Standard	A	5/\$1.00
G1006	Green	Diffused Green	Standard	A	5/\$1.00
G1006A	Green	Diffused Green	Standard	A	100/\$18.00



### Super Bright Ultraviolet Purple 400-405nm LED

These are brilliant 400-405nm purple UV 5mm LEDs that are perfect for use in inspecting money, lighting up invisible UV inks, blacklight posters, etc. Crystal clear 5mm (T1 3/4 lens). This uses Cree Megabright® LED dice and features a forward current of 30MA, DC operating voltage of 3.7 to 4.5VDC. Note: This LED produces intense ultraviolet light. Exposure to UV radiation can be harmful to your health. Protect your eyes and skin when operating. Buyer assumes all risks using this LED. Prime- Brand new.

**G13533 \$2.49 ea.**

## LEDs- (8mm, 10mm, 20mm)

### Giant 8mm Diffused Red LED

Great for indicators as this has a 120° viewing angle and a nice red color. Full length leads.

**G14433 4/99¢**

### Mammoth 10mm 3 Color LED Package

Package of three 10mm diffused lens LEDs. You get 1 green, 1 yellow and 1 red. Each LED is similar except for the color. Great for making small traffic lights. Prime, long leads.

**G1602 \$1.59/set**

### Giant LED Lamps - 20mm

These are probably the largest LEDs you will ever see! Consists of a giant diffused color 20mm (0.79") dia. lens which has 6 internal LEDs. The LED itself has only 2 leads and can be connected directly to a 6VDC source or with a 10Ω resistor to a 9V battery. Forward current is 60 mA. These make bright beautiful indicators as the viewing angle is 120°. Prime!

Stock#	Color	Price
G14245	Red	\$2.75
G14246	Yellow	\$2.75
G14247	Green	\$2.75



### 8mm Jumbo LEDs

Red or Green 8mm diffused lens LEDs are perfect for attracting attention. Nice even bright glow with a large viewing angle. Operates on about 2.8V each.

Stock#	Color	Price
G13527	Green	4/\$1.00
G13530	Red	4/\$1.00

### Blinding Output Giant 10mm White LED

Brilliant 10mm white LED operates from 3.6V to 4.0VDC @ 25ma and produces a blinding white light. Crystal clear lens and full length leads. The MCD on these is 9000. The viewing angle is 15°. Prime factory stock.

**G13501 \$5.95 ea.**

### Giant 10mm LED Color Assortment

We have taken 1 each of our very popular giant 10mm clear lens LEDs and packaged them in this special combination. You get almost \$12 worth of LEDs for this special price. Check the G13501 and G13505 for full specs on the individual LEDs. Remember you get 1 red, 1 white, and 1 blue 10mm giant LEDs.

**G13136 \$8.95**

### Giant 10mm Blinking Red LED

Super large 10mm LED features crystal clear lens. Blinks bright red when 5 to 9VDC is applied. Prime, full length leads.

**G13830 \$1.29 ea.**

**10/\$10.00 • 100/\$75.00**

### Blinding Output Giant 10mm Blue LED

Brilliant 10mm Blue LED operates from 3.6V to 4.0VDC @ 25ma and produces a blinding blue light. Crystal clear lens and full length leads. The MCD on these is 6000. The viewing angle is 15° and the wavelength is 470nm. Prime factory stock.

**G13505 \$4.95 ea.**

### Giant 10mm Bright LED Blowout

Prime giant water clear lens, 10mm LEDs. Made for the valve system lights shown on the first page of this flyer. We have 5 different colors available.

Stock#	Color	Price
G14027	Red	2/\$1.00
G14028	Green	2/\$1.00
G14029	Yellow	2/\$1.00
G14030	Blue	\$1.00 ea.
G14040	White	\$1.49 ea.



## LEDs- Rectangle

### Bright Red Rectangular LED

Deluxe rectangular LED part# QLMPT275 lights up a bright red. Features white case with red diffused lens on top. Size of top lens about 0.25"L x 0.14"W. Full length leads.

**G14456 10/\$1.00**

### Bright Green LED Bar

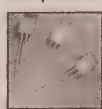
High quality LED bar is .43"L x .19"W x .25"H and features a diffused green lens. Has 4 leads and 2 internal LEDs which cause the green lens to glow a bright green color when 3VDC is applied.

**G14457 10/\$1.49**

### Bright Rectangular LEDs

Diffused lens long lead rectangular LEDs. 3 colors- Available on tape and reel.

Stock#	Color	Price
G13799	Red	20/\$1.00
G13800	Green	20/\$1.00
G13801	Yellow	20/\$1.00



### Bright Red Rectangular LED

Clear case small rectangular LED lights up a bright red dot on top of lens. Great for all types of indicator or display applications. Made by Stanley. Part# BR4503K-5. Factory sealed bag of 200.

**G14401 Bag of 200/\$5.99**

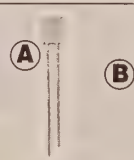
### Large Rectangular Green LED

Diffused green rectangular LED lights up with a nice yellow-green glow. Top lens size: .39"L x .23"W x .33"H. Made by Stanley, part# MU20.

**G14623 8/99¢**

### Rectangular LEDs

Stock#	Color	Lens	Fig.	Price
G7987	Yellow	Diffused Yellow	A	12/\$1.00
G7987A	Yellow	Diffused Yellow	A	100/\$8.00
G7985	Green	Diffused Green	B	10/\$1.00





## Brilliant Rainbow Flashing 5mm LED

You won't believe the output on this flashing color mixing brilliant LED. operates from a 3.5VDC and has a water clear lens. When power is applied it flashes each color; red, blue and green for several seconds, then it slowly mixes and fades the colors together to form other colors. Beautiful, brilliant and awesome. Long leads - factory prime. Use a 100Ω resistor in series with a 9V battery if you desire to use it at a higher voltage.

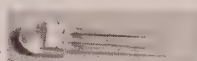
**G13897 \$3.25 ea.**



## Giant 8mm Bright Red/Green 2 Color LED

Brilliant color LED lights up bright red or bright green. Features large 8mm crystal clear lens and 3 long leads. Operates on 3VDC.

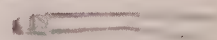
**G13457 2/\$1.00**



## Super Intense Red/Green T1 LEDs

Super intense LEDs with crystal clear lens. One lights up a brilliant green and the other lights up a brilliant red. Size is 3mm (T1). Brand new on tape and reel. You get 5 red and 5 green LEDs (10 total).

**G13657 \$1.00/Assortment**



## Red/Green BiPolar Rectangular LED

Small 5mm x 7mm x 1.7mm frosted white lens rectangular LED lights up bright red, bright green or yellow. 3 leads. Prime full length leads.

**G13494 10/\$1.00**



## Bright Yellow/Green BiPolar T1 LED

Diffused white lens 3mm T1 LED has only 2 leads but can light up a bright yellow or a bright green. Kingbright Part# L937GYW. Brand new factory parts.

**G13458 5/\$1.00**



## Bright Bipolar T1 (3mm) Red/Green LED

This is one of the best quality T1(3mm), 2 color, 3 lead LEDs we have seen. Lights up a bright green, a bright red or a orange red. Frosted lens, long leads and prime. Made by ROHM type SPR-39MVWF.

**G13806 10/\$1.00**

**G13806A Factory Box of 2,000/\$150.00**



## Jumbo Super Bright Bipolar LED

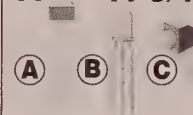
Everlight part# 1SRVGW/S150-1 features a jumbo T1 3/4 (5mm) diffused frosted lens. They are 3 lead units which can light up bright red or bright green. Prime long leads.

**G1122 5/\$1.00**

**G1122A Factory bag of 500/\$80.00**



## Bipolar LEDs T1 T1 3/4



Stock#	Color	Lens	Brightness	Fig.	Price
G6159	Red/Green-Yellow	Diffused White	Standard	A	5/\$1.00
G5310	Green/Yellow	Diffused White	Bright	B	4/\$1.00
G2526	Red/Green-Yellow	Diffused White	Standard	B	3/\$1.00
G7460	Green	Diffused Green	Bright	C	4/\$1.00

NOTE: The third color shown (-) is produced when both LED chips flash on at the same time.

## LEDs- Right Angle / Assemblies / LEDs with Cases

### Lumex Factory Bag of LEDs

Prime factory bag of 500 Lumex right angle T1 LEDs in a black holder. These are used as indicators on PC boards, CPU motherboards, displays etc. Sold only by the bag of 500. Full factory bags with QC stamp and part # listing. See Lumex internet website for full specs. Less than 2¢ per LED.



Lumex Part#	Color	Stock#	Price
SSF-LXH103ID	Red	G13624	500/\$9.50
SSF-LXH103LGD	Green	G13626	500/\$9.50
SSF-LXH103YD	Yellow	G13628	500/\$9.50

### HP Brilliant Red Right Angle LED

Part# HLMP-3750 by Hewlett Packard is a clear case T1 3/4 (5mm) LED. Lights up a brilliant red from 2.5VDC. Made for right angle mounting on PC board.

**G12957 5/\$1.00**



### Brilliant Output Right Angle Red LED

This PC mount clear 5mm T1 3/4 lens LED lights up a brilliant red when 3VDC is applied. Features black plastic holder. Blowout Price.

**G14443 20/\$1.49**



### Tiny Right Angle Red LED PC Board Indicator

Bright red right angle indicator for PC board mounting is only 0.25"H x 0.2"W x 0.1" Thick. Has 2 leads on 0.1" centers. Operates on 2.5VDC.

**G13857 5/\$1.00**



### Bright Yellow Right Angle LED

Pale yellow lens T1 3/4 (5mm) LED for right angle PC board mounting lights up brilliant yellow.

**G14377 9/99¢**



### Fuse™ Valve Stem Lights

Made of 6061 billit aluminum with laser engraved logo, not like the cheap plastic case imports. These feature a 10mm water clear lens brilliant LED and use 2 internal L1154 VINNIC batteries (installed). Simply screw base to turn on and then screw stem light onto valve. Regular price is about \$22 per pair. Our blowout price is 50% off. These have batteries installed so they are ready to go!

**G13886 Red Set of 2/\$11.00**

**G13887 Green Set of 2/\$11.00**

Set of 4 replacement batteries for above (2/ light):

**G13888 \$1.00/set**



### Bright Blue Fuse™ Valve Stem Light

These look and work exactly as above except they use 3 internal L1131 VINNIC batteries (installed). Brand new!

**G14022 Blue Set of 2/\$14.00**



### Super Brilliant 3 Color LEDs

These clear lens T1 3/4 3 lead right angle PC mount LEDs light up bright green, bright orange or if both internal LED chips are powered it lights up a bright yellow orange. This is one of the brightest and attractive LEDs we have seen. Made by LUMEX part #SSF-LXH169IGC. Prime!

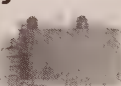
**G1445 4/\$1.00**



### Ultrabright 4 LED Vertical Display

Ultrabright display made by IDI features an alternating pattern of 2 red and 2 green T1 size LEDs mounted in a 13/16"H x 3/16"W black plastic holder. Has 8 pins on bottom for PC board mounting. Great for making attention getting attractive devices, fault indication, circuit status. Brand new prime. Part #5694F5.

**G9992 \$1.00 ea. • 10/\$9.00**



### Dual 2 Color LED Assembly

Plastic assembly containing 2 ultrabright clear lens, rectangular LEDs. Each LED can light up bright red and bright green. Each LED has 3 leads (center lead is anode). LEDs can be simply pulled out of holder and they have full length leads.

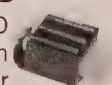
**G14636 5 Assemblies/99¢**



### Bright Red & Green Bipolar LED

Super bright 3 lead rectangular Bi-polar LED in black plastic holder. The leads have been bent over flush against the side of the holder so that the LED could be soldered flush to a PC board. You can bend them back if you wish. Prime and very bright! Frosted white lens.

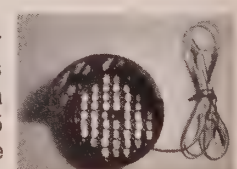
**G8755 5/\$1.00**



### Giant 50 LED Blinding Output Outdoor Cluster Display

Now you can attract attention outside even on the brightest day. Make traffic lights, stop signs, attention getters etc. The giant 50 LED cluster display type LT6750 by Sharp consists of 36 jumbo green LEDs connected in series which produce an incredible 8.16 cd output at 19.0 volts and 14 jumbo red LEDs connected in series which produce and incredible 6.8 cd output at 13.2 volts. The LED cluster is mounted in a 2 1/16" Dia. black cylinder with built in sunshade. Features 3 lead (common, (-) red, - green). Viewing angle in the horizontal direction is ± 35 degrees and in the verticals direction ± 15 degrees. We have seen similar units advertised in surplus catalogs for about \$20 and of course the factory sells our cluster display for a fortune. Brand new prime!

**G9987 \$8.95 ea. • 3/\$25.00 • 200/\$1500.00**

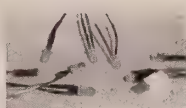




### Wire Lead LED Assortment

Assortment of various color, shape and size LEDs. Each has flexible wire leads attached. Very handy!

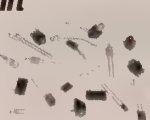
**G9344 \$2.00**



### Giant 100 Piece LED Assortment

Assortment of all types, colors, sizes and shapes of prime quality LEDs. You'll receive LEDs in these colors: red, orange, yellow and green.

**G8063 \$5.00**



### Super LED Assortment

Assortment of all types, colors, sizes and shapes of prime high quality LEDs. Our largest assortment contains 250 pieces. LED colors in assortment include red, orange, yellow and green.

**G7436 \$10.00**



### Brilliant Rainbow Color T1 34 (5mm) LED Assortment

Consists of 4 of the brightest intense color LEDs made. You get 1 blue, 1 green, 1 yellow and 1 red LED. Each of these 4 LEDs features a 5mm crystal clear lens, and each will light up with about 3VDC (except the blue LED that requires 4.5VDC). Brand new prime.

**G13157 \$6.95**



### 3 Piece Assortment of 10mm LEDs

Consists of 1 each; yellow, blue and green 10mm LEDs with 0.5" long formed leads as shown. Each has a crystal clear lens.

**G14311 \$1.99**



### Bright Yellow/Green Dual Color LED

Bright T1 3/4 (5mm) frosted white LED lights up yellow or green. These have a 12" long flexible wire leads terminated in a 3 slot female header on .1" centers.

**G13478 \$5.00**

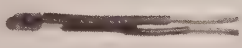


### High Intensity Red LED w/Leads

See through red lens T1 3/4 (5mm) LED glows a brilliant red when 3VDC is applied to its 4" color coded insulated leads.

**G13121 \$5.00**

**G13121A 100/\$15.00**



### Set of 3 Panel Mount LEDs

Add a professional looking touch to your project with these. Consists of one red, one green and one yellow bright panel mount LEDs with wire. These snap into a rectangular hole in your panel and feature an attractive black and white frame around the LED. Each LED has 2 1/2" long wires with female connector attached.

**G12956 \$1.00/Set**



## LEDs- Panel Mount / Long Leads

### Long Lead Bright Red Panel Mount LED

Bright red panel mount LED pushes into a 0.25" hole in your panel. Features color coded 26" long flexible wire leads.

**G14073 4/\$1.00**



### Green LED with Flexible Wire Leads

Perfect for customizing the mini scooters that are popular now. Consists of a bright LED and flexible twisted lead wires that have a female connector on the end (which can be removed). Brand new, bright and has at 13" long leads attached. 5mm (T1 3/4) size.

**G4627 5/\$1.00**



## Lenses & Prisms

### Laser Prism Lens

We aren't sure exactly what this is but it consists of 2 28mm octagon shaped prisms glued face to face. We were told it splits certain laser beams. The housing is about 45mm (L) x 33mm (Dia.). It has several windows (holes) on the side and is threaded on one end. Sorry no other data or info available.

Prisms mounted in metal holder

**G9792 \$8.00 ea.**

Prisms glued together w/o the metal holder

**G9794 \$6.00 ea.**



### Giant Precision Glass Plano Convex Lens

Very high quality plano-convex lenses (PCX) have one flat and one outward curved face. They have a positive focal length and are used to magnify or condense light. These were made for Mitsubishi large screen projection TVs and they are absolutely flawless. Use for thousands of precision optical applications or just to magnify tiny objects. Size: 98mm Dia. x 2mm edge thickness.

**G1621 \$9.00 ea.**



### Precision Double Convex Giant 2.86" (72mm) Dia. Lens

Giant glass lens made for a powerful projector is 2.86" Dia. x 0.80" Thick (at thickest point). These have slight edge chips.

**G14110 \$4.99 ea.**



### Super Prism Assortment

Assortment of 4 different glass prisms. Any one of them is worth more than our low price. May have edge chips.

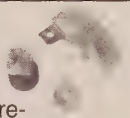
**G9338 \$5.00**



### Small Glass Prism Assortment

Variety of 3 small glass prisms from a laser optics company. Some have attached mounting brackets and some do not. All precision made.

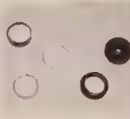
**G14152 \$4.99 ea.**



### Giant Microscope/Optical Equipment Lens Assortment

Assortment of 8 high quality optical glass lens optics from a precision microscope manufacturer. Various size lenses-some in holders, some are not. Minimum size 7mm up to about 18mm. Most are perfect but a few might have a tiny edge chip. Any one of these lenses is worth several times the price of this assortment!

**G9751 \$12.00**



### Laser Optic Disk

These look like front surface mirrors, however the surface is gold colored instead of silver. They were made for a company that makes military and commercial laser optic equipment. The size is about 0.98" Dia. x 0.09" Thick. These may have minor scratches on surface. We placed an ohmmeter on the surface and noticed it was conductive- maybe it's a thin layer of gold- We don't know. Sold "AS IS".

**G14731 \$1.79 ea.**



### High Quality Magnifying Lens

These 1 1/2" diameter plastic lenses were designed for use with an infrared sensing detection system. Very high quality individually wrapped. One side is very convex (outward curving) the other is just slightly convex. Precision made-brand new!

**G3068 \$2.00 ea.**



### Magnifying Lens Double Convex

High quality double convex magnifying lens is perfect for hundreds of applications. Clear heavy duty plastic construction with 3/16" mounting edge and 1 5/8" overall diameter.

**G3227 \$1.00 ea.**

**10/\$7.50 • 100/\$69.00**



### Super Power Optical Glass Magnifier Lens (Small Type)

These are only 3/4" in diameter x 1/4" thick. They are still very powerful and can focus sunlight to a very small spot to instantly burn wood etc. Has ground edges, precision made.

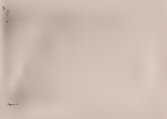
**G8359 \$3.75 ea.**



### Large Heads Up Display Glass

Large piece of glass has a special surface coating on one side which allowed it to function as part of a "heads up" display system. This piece is a trapezoid approximately 6 3/4" at the base and 9 1/2" at the top with 2 equal sides 8 3/4" high. When held at an angle the glass can efficiently reflect a "reversed image" to you while at the same time you can look through the glass at your surroundings. These types of display systems are used extensively in military aircraft, helicopters, etc. Obviously the image from a CRT or numeric display is electronically reversed before its reflected onto the glass surface in these applications so that the view is correct. These will also divide the beam of a laser pointer into 2 spots. These are brand new but may have slight blemishes. Coated glass only as described above (not a complete heads up system).

**G13586 \$9.95 ea.**

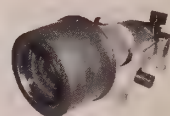




## Giant Lens Assembly For MEMS Projector

This large assembly was the optical lens assembly from a very late model MEMS projector. Consists of large front adjustable lens and various input lenses for red, blue, and green plus mirrors etc. Sorry no electronics or MEMS unit. Very high quality metal case unit worth a fortune. Sorry no other info available. These appear to be brand new and they weigh in at about 11 lbs.

**G1565 \$59.00 ea.**



## Giant Front Surface Mirrors

Giant front surface, highest quality, glass mirrors for laser applications. We have the following sizes - each with blue protective peel-off film.

Size	Stock#	Price
12 1/2" x 2"	G14264	\$2.49 ea.
12" x 1"	G14265	\$2.00 ea.
17" x 1 3/4"	G14266	\$2.49 ea.

## Magnifier Lens

Designed to snap into a panel, these crystal clear lenses are bout 8mm in diameter x 7mm (Front part that mounts on panel). The overall length is about 20mm. These cause a LEDs output to appear much larger or, we have been told that they can be used with fiber optics.

**G9842 20/\$1.00**

## Unique Fresnel Lens

Unique shaped fresnel lens features 2 molded tabs at right angle with holes so it can be mounted at the front of a robot. The lens focuses to a small circle about 3" away and can set paper on fire if in the sunshine. We don't know what it was made for but it makes a strange faceplate for a robot (mount LEDs or sensors behind the lens). Size about 4 1/8" L x 1 11/16" W. New.

**G14372 99¢ ea.**

## Double Prism Made for Laser Optic System

This small device consists of two glass prisms glued together to form a .475" cube. At the bottom of the cube is a .37" Dia. X 0.18" thick front surface mirror or coated filter. The prism assembly has an opaque coating on three of the sides, but some of this may be missing. We were told that this was made for a laser optic rangefinder for the military. Sorry, no data or specs. Has an attractive violet hue when viewed from the side. Sold "AS IS", Hurry, limited quantity.

**G14846 \$2.99 ea.**

## Giant 31" x 40" Flexible Fresnel Lens

This giant lens is flexible and can be rolled into a 1 ft. Dia. x 31" shape for easier shipping and transporting. This lens is extremely powerful. When we took it out to our parking lot, the concentrated beam started the asphalt smoking within a few seconds. Make powerful solar furnaces, stoves, etc. with this, but remember to be very careful when you are in sunlight. Size: 31" x 40" x 0.058".

**G13994 ~~\$69.95~~ SALE! \$49.95**

## High Tech Acrylic Domes

The smaller size of these domes have been very popular-now we have this larger size. These see-thru domes with black base make a great addition to a science project or robot. Overall diameter of plastic base is about 4 7/16" and the see-thru part of dome is about 3 1/4" Dia. x 1" high (at the center). Brand new!

<b>G1616</b>	<b>See-thru Red</b>	<b>\$4.75</b>
<b>G1617</b>	<b>See-thru Green</b>	<b>\$4.75</b>

## Precision Clear Dome

Sparkling crystal clear dome is different than the other acrylic domes we sell because this one does not have a black base. You have a totally un-obstructed view. Great for all types of high tech robots or science projects. Overall diameter about 4 1/4". Height at center about 1".

**G1622 \$5.00 ea.**

## Bausch & Lomb Large Condenser Lens

This lens concentrates light into a projected beam for use in projectors, spotlights, enlargers, IR systems, etc. The large 38mm lens is made of durable Pyrex® glass. Top quality and worth a lot more than our low price.

**G8384 \$5.95 ea.**

## Large Condenser Lens

Large crystal clear magnifying lens is perfect for making solar furnaces or solar powered cigarette lighters, etc. Very high quality rectangular lens is 2.24" x 1.98" x .78". Focal length about 2.75". All edges are fire polished.

**G9576 \$2.00 ea. • 10/\$18.00**

## Front Surface Mirror

Brand new trapezoid shaped front surface mirror is perfect for hundreds of laser applications. Size is approximately 2" x 1 19/32". These have a peel off protective film on front surface to protect the mirror and a peel and stick foam backing on back to mount the mirror.

**G1127 \$1.49 ea.**

## Giant "Mirror Like" Reflector

Our largest reflector is perfect for use in high power strobelights, color organs, lamps, etc. Size is 6" L x 4 1/4" W x about 1" deep. Has 9/16" dia. hole in center. Brilliant mirror finish on plastic surface.

**G4386 \$2.49 ea. • Pkg of 2/\$4.00**

## Giant "Dimple" Finish

### "Mirror Like" Reflector

Same size as one above but has a "dimpled" surface.

**G4387 \$2.25 ea. • Pkg of 2/\$3.50**

## Rare 3 Color Beam Splitter

Very unique item can combine red, green and blue lasers into "white" light for laser shows. Of course, if you put white light in, you get red, green and blue light out of the three other windows. Very precision made unit by Minolta. Contains an optically perfect color beam splitting prism and various other optical parts including lenses, rods, front surface mirrors, etc. The overall size is about 13 1/2" x 8 1/2". These must have cost in the thousand dollar plus range (we don't know). They look new, however they may have a few scratches on the metal case and may be used. Each comes in its own styrofoam packed box. Sorry, we do not have any data on its use. weighs about 9 lbs., so please include extra for shipping.

**G9488 ~~\$100.00~~ SALE! \$89.95 ea.**

## Computar V5018 Lens

This is a high quality lens which is very popular and sells typically for \$120.00 and up. It features a focal length of 50.0mm, a maximum aperture ratio of 1:1.8, a manual adjust iris of F1.8 ~ 22C, a focus of 1.0m ~ infinity and is made for 1" format C-mount cameras. More complete specs can be found on the internet! New in the original Computar box.

**G14016 \$69.95**

## Large Screen TV Projection Lens

These are brand new projection lenses that were made surplus to us from one of the top large screen TV manufacturers. The overall size of the top optical part of the lens is about 3 1/2" Dia., however the plastic base holder assembly is over 5" in Dia. and about 2 1/2" high. Very good optical quality. Prime!

**G1596 \$7.95 ea.**

## Giant Glass Traffic Light Lenses

Great for special lighting effects, color organs, strobes, concert lighting etc. These are real tempered glass lenses from traffic lights. Size almost 12" Dia. with a slight convex shape. Made by Kopp glass, these traffic signal lenses have uniform and lasting color to meet specific spectral transmission requirements. We have a limited quantity of the following colors.

Description	Stock#	Price
Teal (Greenish Blue)	G13589	\$10.95
Red	G13590	\$11.95
Teal Arrow (Greenish Blue)	G13592	\$14.95

## Precision Optical Lens

Very nice 2" AR coated double convex magnifying lens is highly polished first grade and comes in a plastic box. These were made for Teledyne Brown. Lens is about 1/2" thick.

**G4372 \$3.50 ea.**

# Magnets

## Giant Super Magnet

Neodymium rare earth super magnet is so powerful, it's very difficult to remove when attached to a metal surface! Size is 2" L x 1 3/16" W x 3/16" Thick. It has white paint covering the entire surface but the paint may have scratches on it from shipping and storage. One of the most powerful super magnets we have ever offered!

**G13477 \$2.00 ea.**



## Flexible Peel & Stick Magnetic Material

Prime peel & stick magnetic strip material. Great for thousands of applications. Brand new. Size: 1/2" wide x 1/16" thick x 1 foot long. Can be cut into smaller pieces with scissors. Simply stick the adhesive side to the picture, paper, or any light object that you want to magnetically hold to a metal surface (the other side does not have adhesive). Make your own fridge magnets!

**G14635 1ft./99¢**





## Super Powerful Giant Magnetic Ring

This ferrite ring magnet is extremely strong (even though it is not a rare earth magnet). It is 2.36" dia. x 0.33" thick and has a 1.09" hole. Stack several of these on a broom handle or a wood dowel and they will appear to float as the "like" fields oppose each other. Turn one of them over and it will be attracted to the closest magnet and will be difficult to separate (you have to slide them apart). New. **G14395 \$1.99 ea.**

## Ring Magnet

Small 0.50" Dia. x 0.20" thick magnet has hole in center. Stack these in a toothpick or stiff copper wire and the disks will appear to "levitate". These are powerful enough to hold a photo or paper to a refrigerator. **G14324 5/\$1.00**

**See Our Magnet Pick Up Tools on Page 100**

## Rare Earth Neodymium Super Magnet

Brand new chrome plated super magnet is about 1.43" L x .55" W x .05" T. The magnet is mounted by glue to a metal bracket assembly that is about 2.39" x 1.14". We have found that if you place the bracket assembly on a cement floor and strike the back side of the bracket firmly with a hammer, the glue releases and the magnet can be slid off. Sometimes however the magnet may break (but the pieces are still very usable) and we assume no responsibility or replacement if this happens. The bracket also contains 1 tiny .11" x .13" super magnet that can easily hold a full size page of paper to a metal surface. The magnets are brand new high quality and the larger one can hold 15 to 20 lbs. We have 2 types:

**Bracket Assembly containing 1 large and 1 tiny supermagnet**

**G12861 \$1.00**

**Bracket Assembly containing 2 large and 1 tiny supermagnet**

**G12862 \$1.49**



## Edge View 0-10amp DC Panel Meter

Features clear case with white face and black marking. Made by Prime. Snaps into 1 1/4" x 9/16" rectangular hole in your panel. Brand new. **G4516 \$1.99 ea.**

## Large 25 Amp DC Current Meter

Nice quality 3.2" sq. meter panel mounts in a 2.5" round hole. Has white face marked 0-25 with black lettering. It has a red warning label at 5 amps (you can remove the clear face by removing two screws and then peel off this sticker if you desire). These are brand new and have an internal shunt. **G14639 \$9.95 ea.**

## Dual Meter

Black face panel meter with white lettering features 2 high quality meters in one! The plastic meter front is designed to protrude through a 1 1/4" x 4" rectangular hole in a panel. The meter itself is a sloping type with an overall size of about 4 1/4" x 2 1/8". It can be lighted if desired by using almost any LED in the hole provided. Range is 0-500ma for the signal meter and 0-250ua+/- on center scale tuning meter. The signal meter is a standard type marked 0-5 and the tuning is a center scale type with no numerals. Brand new-very high quality. **G9786 \$2.98 ea.**

## Solar Meter Edgewise Voltmeter 18-32VDC for Solar Energy Applications

Colorful scale (red, yellow, green) voltmeter features a scale marked 18 to 32 D.C. Volts. Center scale indicator is at approx. 25V. These have a built in diode and resistor to allow direct connection across your panel or load without affecting the functioning of your system. Mounts in a 1 13/16" L x 3/4" hole. Brand new with solder terminals and clear plastic case. **G13794 \$4.00 ea.**

## Compact Deluxe VOM with Data Hold and Backlight

This is our best VOM! It features a data hold button, a backlight button that lights up the display for a few seconds so you can take readings in the dark, a continuity sound position and a LFE (gain) test position for transistors. It can measure 0-600VDC in 5 ranges, 0-600VAC in 2 ranges, 0-2 Meg  $\Omega$  resistance in 5 ranges, diode test and 0-10 amps in 5 ranges. This deluxe digital VOM is only 5 1/2" x 2 1/2" x 3/8" and is black in color. Includes a removable yellow insulated holder. Brand new in sealed retail blister package with built in battery and flexible color coded insulated test leads. This is one of the best digital VOMs that we have ever offered! **G12941 \$16.95 ea.**

## Audio Level Meter

Small rectangular meter was made for indicating speaker overload. Features white arrow on a green background which changes to green/red at full scale. The entire movement rolls (as opposed to a needle indication). Size of face 1 13/16" x 5/8". Mounting ears are on 1 11/16" centers. Sensitivity 0-10 milliamps. **G3301 \$1.00 ea.**

## Smallest Full Function VOM

This is one of the smallest and neatest digital VOM meters we have ever seen. Unlike most small VOM meters, this meter even measures transistors and current (up to 10 amps). Ranges: DCV 200MV, 2000MV, 20V, 200V, 500V; ACV 200V, 500V; DCA 200uA, 2000uA, 20mA, 200mA, 10A; Resistance 200 $\Omega$ , 2000 $\Omega$ , 20K $\Omega$ , 200K $\Omega$ , 2000K $\Omega$ ; Diode; Transistor hFE NPN/PNP. This tiny meter is only 3 5/16" L x 1 3/4" W and fits completely in your hand or pocket. Comes with flexible test leads and built in battery. Easy to read high contrast LCD display features large digits! Once you try this meter, you'll seldom use your full size meter again! Brand new in retail blister package. Hurry, we bought out the supplier's entire inventory of these quality meters and they won't be able to supply more of these for a long time. Black case. **G12847 \$9.95 ea.**

# Microphones

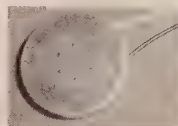
## High Quality Electret Microphone

High quality miniature microphone mounted in a stylish black 1 5/16" L x 15/16" W x 5/8" T case. The microphone has a 6ft long cable with a 3.5mm stereo jack (the microphone is mono so the first two sections of the plug are connected internally). Also features velcro peel-n-stick mounting square on back. There is only one screw (under the velcro) that holds the microphone case halves together- if you open the case and cut off the cord, you will have a miniature case that has ample room to mount projects such as a miniature FM microphone, hearing aid circuit, etc.- anything that makes use of the 3/8" dia. built-in sensitive microphone. Brand new-prime! **G7229 \$1.25 ea.**



## High Quality Ceramic Microphone

Make an electronic stethoscope or sensitive listening device with this high quality ceramic microphone. Metal case enclosed unit. Size about 1 3/16" Dia. x 3/16" thick. With 5" Long insulated leads. **G5098 \$2.00 ea.**



## High Impedance Tiny Speaker/Microphone

This 1.21"D9ia. x 0.48" thick off white plastic case speaker features 3 holes for sound and a 110 ohm impedance. Can be used as a speaker or a dynamic microphone. Has 2 solder terminals on back of case. These are becoming hard to find. Part# DR-934 by Hosiden. **G14397 2/99¢**



## Mini Electret Microphone Assortment

Great assortment of miniature electret microphones made for cellular phone manufacturer that stopped production. Contains 3 different microphones. **G9445 \$2.00**



## Primo General Purpose Sensitive Electret Microphone

Primo electret microphone made for non directional applications features 100-10,000Hz frequency response, 2V to 10VDC standard operating voltage. Size: 10mm (.39") Dia. x 5mm (.20") High. Metal case. Sensitivity -44dB @ 1kHz, S/N Ratio 60dB, Current 650uA max (Vcc=6V), Impedance 1K $\Omega$  (1kHz). Brand new. Primo # EM-100 (H). **G12786 4/\$1.00**

**G12786A Factory Box of 1000/\$180.00**



## Spy Mike

This is the tiniest electret condenser microphone we have ever seen. It is only 6mm in diameter x 3mm thick. Has dust screen and 2 tiny pins for PC board mounting. Operates on 1.5V up to 3VDC.

**G1841 2/\$1.00**

**G1841A 100/\$45.00**

## Super Sensitive Electret Microphone

Small metal case microphone for audio applications has a built in FET. Use with a 15K resistor to the + lead. Ground goes to the case lead. Has small black dust cover. Size is .39"Dia. x .30"H. Has 2 PC pins for connection.

**G13702 99¢ ea.**

## Tiny Dynamic Microphone Element

Tiny dynamic microphone element with chrome metal grille is only 13.5mm (dia) x 6mm (thick). Impedance is 300Ω.

**G4196 \$1.00 ea. • 10/\$8.00**

## Electret Microphone with Long Leads

Handy to use, small electret microphone features a shielded cable plus power lead (3 leads total). Flexible leads are about 7" long. Microphone is 3/8"L x 3/8" Dia. Metal case unit with a front surface dust shield.

**G1098 \$1.29 ea.**

## SMD Tiny Microphone

Made by Siemens, this tiny microphone is an ultrasensitive electret condenser omnidirectional microphone. It features 2 small terminals on bottom and a rubber boot. Size about 8mm (dia) x 5 mm (high). Frequency range 20Hz-16KHz, max operating voltage 10VDC, standard operating voltage 2VDC. Brand new—prime!

**G1820 2/\$1.00**

**G1820A 100/\$38.00**

**G1820B 1000/\$350.00**

## Omniflex Uni-Directional Dynamic Microphone

Super dynamic microphone with long flexible cord and 1/4" mono plug features uni-directional response. Deluxe hand held black case microphone is about 8 1/2" long with 600 ohms impedance and -75±3dB sensitivity at 1KHz. Great frequency response of 80-12KHz. Has built in ON/OFF switch in handle. Brand new in retail blister package. Perfect for your next Karaoke party! Type OM88 made for St. Louis Music Inc. The wholesale price of these was \$28.95.

**G9966 \$19.95 SALE! \$12.95 ea.**

## Thin Mylar Cone Speaker

Small 0.79" dia. x 0.16" thin mylar cone speaker features a strong magnet and an 8Ω impedance. This tiny speaker can actually reproduce music at an acceptable sound quality. Has solder pads for connection.

**G14360 99¢ ea.**

# Motors

## Micro Pager Motor

Made by Nakimi, this micro size pager motor was designed to provide the vibrate function on miniature pagers. Its size is only 4mm (.16") Dia. x 12.5mm (.49") long (excluding shaft and weight). Has 2 tiny terminals for hookup and is mounted in a slip-off rubber shock sleeve. Operates from 1VDC up to 5VDC. Motor resistance is about 11Ω. Great for thousands of micro projects, robots, etc. Brand new.

**G12809 \$1.79 ea.**

**10/\$15.00 • 100/\$110.00**

## Miniature Pager Motor

Type 95R has a body that is 0.5" long x 0.24" dia. The shaft has a "D" shaped weight that provided a vibrating alert function for pagers. Operates from 1.5V to 3VDC and has a "snap on" (removable) mounting clip. Perfect for tiny robots, alerts, solar projects etc.

**G13135 \$1.79 ea.**

## 1.5VDC Mini Pager Motor Type

Tiny motor designed to produce the vibrating alert in many phones and pagers. This motor is perfect for making tiny beam robots as listed on the internet. Size of body only .65" L x .31" Dia. (excluding shaft). Shaft has a "D" shaped weight attached. Has flexible color coded leads for hookup. Brand new!

**G13531 99¢ ea. • 2/\$1.49**

**100/\$60.00 • 1000/\$550.00**

## Tiny Vibrator Motor Made for Motorola Products

This tiny vibrator motor body is only .44" L x .18" Dia. It has a weight attached to its shaft. These make great motion generators to cause movement in tiny robots, and are also useful in making silent alert alarms, timers etc. Has 2 flexible terminals for power connection. Will operate from 1VDC up to 9VDC. This vibrator motor has a black rubberized boot that can be removed to reduce its size even further. It is one of the smallest and best quality vibrator motors we have ever offered.

**G13566 \$1.29 ea.**

**10/\$10.00 • 1000/\$690.00**

## Small Efficient 1/2V up to 9VDC Motor

This small motor is so efficient it will even operate on one solar cell (.5V). Size of motor about .95" Dia. x .55" L. Has .40" L shaft that is .08" Dia. Brand new—has solder eyelets and flexible color coded leads (either set can be used). Made by Samhongs.

**G13622 \$1.29 ea.**

## Mabuchi FF-N20PN Miniature Motor

High torque, high RPM motor operates from 1.5VDC up to 3VDC. Speed at no load is 15800 RPM. Current at no load is .096amp. At maximum efficiency RPM=12200, current is .33amp and torque is 2.8g.cm. Stall torque is 13g.cm - Stall current 1.15amp. Weight about 5 grams. Size only 15mm (L) x 12mm (W). With 4mm (L) x 1mm (dia) shaft. Has solder eyelets. This powerful motor is perfect for making miniature robots. Picture is the approximate actual size of this incredible motor.

**G2110 \$1.00 ea. • 2/\$1.89 • 100/\$80.00**

## High RPM Johnson Small DC Motor

Small motor operates from 1.5VDC up to 9VDC and features a 2mm (dia) x 7mm (L) shaft. Size of body is 30mm (L) x 24mm (W). Has 2 solder terminals for connection.

**G4046 \$1.00ea. • 100/\$80.00**

## Heavy Duty Airpax Stepper Motor

Airpax Model C82902-M2 is 2 11/16" dia. with mounting ears on 3" centers. Features 2.7V operation with ohms/coil .97, step angle 7.5°. Has 5/8" L x 1/4" dia. "D" shaft. Standard four lead type with 2 ft. long flexible leads. Brand new! No other data available.

**G9547 \$4.95 ea.**

## Small Mabuchi Motor RF-500TB-14415 1.5VDC up to 9VDC

Very smooth running small motor made for CD players, DVD players and VCRs is perfect for making small robots. At 3VDC its speed is 1800 RPM (no load) @ .022Amp. At maximum efficiency its speed at 3VDC is 1430 and the current is .085. Torque is 8.4 g.cm. Stall current is .33amp at Torque of 41g.cm. Size is 1.28" Dia. x .98" L. Shaft is .38" L x .08" Dia. This is one of the best motors around for use in robotics or solar applications! Brand new with solder eyelets.

**G13604 \$2.00 ea.**

## Solar Motor

Highly efficient motor made by Hanksraft requires very little current to operate and although rated for 3 VDC, it operates perfectly at 1/2 volt (solar cell output). Make solar powered displays, gadgets, etc. Has flexible color coded insulated leads and small white plastic gear (removable) on shaft. Overall diameter of motor is about 1 5/16". Shaft is 3/8"L x 0.06" Dia. (1.5mm dia.).

**G4453 \$2.75 ea.**

## Miniature Stepper Motor With Schematic

2 phase bi-polar/Quadrature miniature stepper motor. Small 0.8"Dia. x 0.68" thick stepper motor features a knurled .3"L x 0.06"Dia. shaft. Has 5 leads, however we include a schematic of a simple 3 IC driver circuit {uses one 74HC86 IC (G4792A), one 74HC365 IC(G12548) and one 4013 IC (G49999A)} that will drive this stepper motor. The 5VDC circuit schematic features a Run/Stop input and reverse direction input. The stepper motor features 20 steps per revolution and is perfect for miniature robots. The stepper motor is brand new precision made with 4 pin female connector on end of 2.8"L leads. Motor and schematic only (no driver components). A complete PDF version of the schematic is available to download on our website at [www.goldmine-elec.com](http://www.goldmine-elec.com).

**G14197 \$1.99 ea.**

## Powerful 6VDC Small Johnson Motor

This motor has a greater than normal torque for its small size. Operates from 3VDC up to 12VDC and produces a nice amount of torque at 6VDC (rpm=1700). No load current at 6VDC is about .250 Amp. Loaded it is about 1 Amp. Size 1.7"L x 1.18" Dia. Has .5"L x .09" Dia. shaft. With solder eyelets for power hookup Great for robotic applications!

**G13775 \$2.49 ea.**



### High Quality Small DC Motors for Robots

Each of these motors is a high quality metal case motor with solder terminals, solder pads, or wires for power connection. To reverse direction of shaft rotation simply reverse polarity of battery voltage. All motors can work on higher or lower voltages, but the voltage and current ratings shown are the optimum load conditions. These are perfect for your next robot project. Each motor is new and packaged in a sealed bag with label. Most shafts (except for L & M) are standard 2mm dia. (0.08")

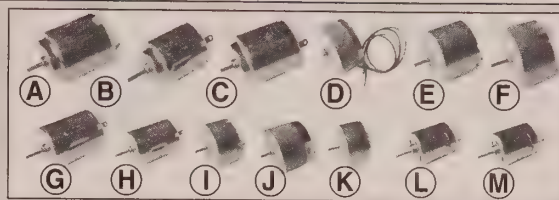
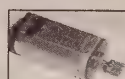


Fig.	Voltage	Current	RPM	Body (dia. x L)	Shaft (dia. x L)	Stock	Price
A	1.5V	97mA	3050	0.95" x 1.2"	0.08" x 0.23"	G14403	\$1.00
B	1.5V	140mA	5450	0.82" x 1.1"	0.08" x 0.36"	G14404	\$1.00
C	1.5V	200mA	5700	0.95" x 1.2"	0.08" x 0.23"	G14405	\$1.00
D	1.9V	32mA*	3450	0.98" x 0.55"	0.08" x 0.10"	G14406	\$1.49
E	2.5V	17mA*	2800	0.96" x 0.83"	0.08" x 0.29"	G14407	\$2.00
F	3.0V	35mA*	2700	1.26" x 0.96"	0.08" x 0.34"	G14408	\$1.49
G	3.0V	140mA	7100	0.94" x 1.34"	0.08" x 0.38"	G14409	\$1.29
H	3.0V	200mA	9200	0.94" x 1.34"	0.08" x 0.38"	G14410	\$1.29
I	6.0V	28mA*	3700	1.26" x 0.96"	0.08" x 0.34"	G14411	\$1.49
J	6.0V	40mA*	2400	1.33" x 1.04"	0.08" x 0.31"	G14412	\$1.49
K	9.0V	23mA*	3950	1.26" x 0.96"	0.08" x 0.34"	G14413	\$1.49
L	12V	220mA	1320	1.08" x 1.5"	0.09" x 0.48"	G14414	\$1.19
M	18V	140mA	10400	1.08" x 1.5"	0.09" x 0.48"	G14415	\$1.19

### Small DC Robot Motors

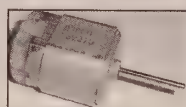
We have 3 different motors that are perfect for driving small robots:

**TYPE 1:** Very high speed operates from 1/2 volt up to 6VDC. Has small gear on shaft. Size of motor 1 1/4"L x (5/8" x 1/2" oval).



**G9330 \$1.25 ea.**

**TYPE 2:** Extra long shaft heavier duty type. Shaft is 3/4" long about 1/16" dia. Motor requires that bare wire (24 ga) leads (you provide) are inserted into socket type connectors on motor to bring in the power to run it. Works great from 3 VDC up to 12 VDC. Size 1 1/4" L x (15/16" x 11/16" oval).



**G9331 \$1.25 ea.**

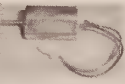
**TYPE 3:** Heavy duty compact design motor by Johnson for large Robots. Motor has 1/2" long 1/16" dia shaft and solder terminals for power hookup. Runs on 6VDC up to 24 VDC. Size 1 1/2" L x 1 1/16" dia.



**G9332 \$1.49 ea.**

### NISSEI DC Motor

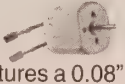
Small motor operates from 3VDC up to 18VDC and features a 1 7/16" L body x 3/4"W. Has 9/16"L shaft that is 1/16" Dia. Motor features 3" long flexible color coded leads with 2 slot female connector. Part # 7E27 by NISSEI of Japan.



**G9931 \$1.00 ea.**

### Small 12VDC Johnson Motor

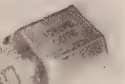
Small 0.94" Dia. x 1.21"L Johnson motor operates from 6VDC up to 24VDC and features a 0.08" Dia. x 0.40"L shaft. Has 2 color coded flexible 1.5"L leads with "push on" quick connect terminals. New!



**G14072 99¢ ea.**

### Small 12VDC Motor for Car Windows

Small motor with 3/4" diameter metal gear was designed to go into an electric window assembly. Motor is about 1 1/4"L x 1" x 3/4". Motor requires that bare wire 24 gauge leads (you provide) are inserted into socket type connectors on motor to bring in the power to run it. Motor will work fine on voltages as low as 3VDC.



**G12934 \$1.29 ea.**

### Heavy Duty 12VDC Rewinder Motor

This small but heavy duty motor was made for a rewinder. It features a 1.18"L x 1.35"Dia. body and has a .38"L x .10"Dia. shaft. Operates in the range of 6VDC to 18VDC. Has solder eyelets for power hookup.



**G14957 99¢ ea.**

### Powerful 12VDC Motor

Made by Igarashi this DC motor features a size of 1.66"L x 1.1" Dia. It has a 0.09" Dia. shaft with a 0.20" Dia. , eight tooth gear attached. Has solder eyelets for power connection. Brand new.



**G14759 \$1.25 ea.**

### 12VDC Heavy Duty Robot Motor

Has a 1 1/2"L x 1 1/8"Dia. body, and a 1/2"L x 3/32"Dia. shaft.



**G7851 \$1.00 ea.**

### Super Power 12VDC Motor With Gear

Nice high power (for its size) DC motor operates from 6V up to 18VDC. Features a body size of 1.84"L x 1.16"Dia. Has shaft that extends from each end of motor. On one end it is .2"L x .09" Dia. (2.3mm) and other end has an 8 tooth 0.23"Dia. (5.85mm) gear. Made by Igarashi. Has solder eyelets for power and 2 threaded mounting holes on front. Great for building robots.



**G14727 \$1.49 ea.**

### Heavy Duty 12VDC Motor with Regulator

Precision 1 7/16"Dia. motor has a three transistor regulator board attached. We don't have the hookup diagram, but they look like sophisticated electronic regulator boards. Size of board: 1 1/2" x 2 1/8". Size of motor: 1 7/16" Dia. x 1 7/8" L. The shaft is a "D" type and 1/2" long. New! No other info available. Sonar Radio Corp. Part# 27-030-008.



**G6540 \$1.50 ea.**

### Mabuchi High Speed Powerful 6-20V Motor

Small 32.6mm (L) x 27.7mm (dia). motor by Mabuchi was designed for hair dryers, massagers corn poppers, etc. Features No load speed of 12,800 at 12V and 19,400/min at 18V. Current draw at maximum efficiency .83Amp (12VDC) speed 10,410/min torque 56.9 gcm. Stall current 3.6Amp (12V). Shaft is 15.6mm (L) x 2.3mm (dia). These have four diodes soldered to the terminals to allow operation from AC, however they can be simply cut off or unsoldered if you wish to use this motor on DC (to allow for shaft to spin in both directions). Brand new!



**G13249 \$1.00 ea.**

### Heavy Duty 12VDC Motor w/Pulley & Sinusoidal Encoder Output

Nice precision made heavy duty motor by Buehler features yellow 2 wire sinusoidal encoder output (you can use in speed measurement circuitry if desired). The red and blue wires are used for DC in and can be connected to 3VDC up to 18VDC. High power output for its size. To reverse direction simply reverse battery polarity. Great for making robots with rubber band drives because the pulley is already attached to the shaft. Size of motor: 2.2"L x 1.33" Dia. Size of pulley about 0.39" in overall dia. x 0.25" Wide. New.



**G14783 \$2.49 ea.**

### Precision Cassette Motor 13.2VDC

Small 1.35" dia. x .85" thick motor made by Matsushita Electric. Part# MMT-3RE2MJ features shielded cable, shielded banding and a .31" dia. brass pulley. Brand new.



**G13377 \$1.49 ea.**

### Heavy Duty Hitachi DC Motor w/Encoder

This large DC motor features a 22.5Volt DC @ 2.1Amp continuous rating, with a 2775 rpm 28W output. The encoder features 500P/R. Hitachi type D05F401E. The size of this motor including the encoder is 4.6"L x 2.1Dia. The shaft is .9"L x .2"Dia. "D" type. Encoder has four color coded leads. Power input is on red & black leads. To change motor shaft direction of rotation simply reverse voltage to power leads. We tried this motor on 9VDC and it worked fine, however the optimum power is achieved at 22Volts. Brand new! Worth many times our price.



**G14944 \$27.95 ea.**

### 24VAC Timer Motor

Gear type timing motor has high torque. Operates from 12VAC up to 24VAC. RPM about 3 to 4 at 24VAC. Has flexible wire leads. Size about 2.5" x 1.9" oblong x .9" thick. Has .28" Dia. x .30" H. 8 tooth metal gear. New.



**G13511 \$2.49 ea.**



## Japan Servo KP4M4-029 Unipolar 1.8° 12VDC Stepper Motor

Nice quality 1.65"sq. x 1.25"H (excluding shaft) stepper motor. This motor has a 0.2" Dia x 0.5"L shaft and 5 leads. Check the internet for lots of information on KP4M4 stepper motor. New. Blowout price!

**G14781 \$2.95 ea.**



## Unipolar 4 Phase Stepper Motor

Made by Nippon, part# PF35T-48L4 and features 6 color coded leads and a shaft that extends on either side. One end of the shaft has a brass 10 tooth 0.4"L gear – the other end is 0.32"L x 0.08" Dia. Overall diameter of body is 1.40" (excluding mounting ears) and body is 0.59" thick. Sorry, no other data. New.

**G14565 \$1.99 ea.**



## Applied Motion Products Model 205461 5015-824 Stepper Motor

Features 8.56V, .323 A/Ø, 26.5Ω, 400 S/R. Size about 1 1/2" sq. (excluding ears) x 1 5/16"high. Six lead type. Shaft is 5/8" L x 3/16"dia. Very precision, high quality unit. Sorry, no other data available. New!

**G9550 \$4.49 ea.**



## 12VDC Gearhead Motor

Compact metal case gearhead motor features very high torque and 0.87" dia. 26 tooth gear on end. Can operate on as low as 3VDC. Size about 2.3"L x 1.58" (including gearhead). Has 2 solder eyelets for power. To reverse direction, simply reverse polarity. NOTE: Has large plastic protective cover underneath the gear as seen in picture. New!

**G14728 \$7.95 ea.**



## Barber Colman DC Gearhead Motor

Heavy duty very high torque gearhead motor features operation from 6VDC up to 40VDC. Current requirements range from about 80ma up to 120ma. Motor body is about 3.8" Long (including gearhead). Dia. of gearhead is 2" and dia. of motor body is 1.45". Shaft has a "D" cut on end and is .25" dia. x 2.7" Long. Approximate speeds are at 6VDC 8RPM, 12VDC 12RPM, 24VDC 33RPM and 40VDC 57RPM. Label is marked 30VDC, so this is probably its optional voltage. These were removed from expensive large computer memory jukeboxes. Used- good condition.

**G13368 \$24.95 ea. • 2/\$45.00**



## Airpax 12VDC Gearhead Motor

Nice quality gearhead motor by Airpax features very high torque and sealed plastic case. Has 0.16" Dia. x 0.35"L shaft. Overall approximate size of case is 2.52"L x 1.55" sq. Has 4 mounting holes. Operates from 3VDC up to 18VDC. To reverse direction- simply reverse polarity. New!

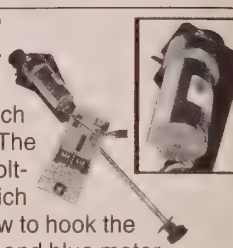
**G14607 \$8.95 ea.**



## Heavy Duty Gearhead Motor With Drive Train

This assembly consists of a heavy duty gearhead motor that is attached to an additional gear assembly with a 13" long shaft which rotates. The torque is incredible and each end of the 1/4" shaft has a gear that can be removed. The motor is rated for 24VDC, however it works perfectly on voltages as low as 9VDC. Comes with a controller card which can be unplugged. We have no schematics or data on how to hook the card up, however as long as you apply voltage to the red and blue motor power leads the shaft will rotate!

**G9809 \$19.95 ea.**



## AD/DC Motors

### Large Geared Motor

Looks like this could be used in robot applications or anywhere a high torque forward motion is needed. Consists of a 3 1/2" L x 1 3/8" Dia. motor that has a bridge rectifier attached to its power input leads. The bridge allows for operation from 12V up to 120V AC or DC. The shaft of the motor is a worm gear connected to a rotating 3/4" Dia. white plastic gear. The arrangement provides a tremendous forward movement. However, the motor shaft itself cannot be reversed, because the worm gear only operates in one direction (that's why the bridge rectifier is attached).

**G9485 \$3.95 ea.**



### AC/DC Heavy Duty Motor 12V up to 120V

High speed, high torque AC/DC motor has a built in bridge rectifier to allow shaft to rotate in only one direction. Features a speed of 11,444 RPM at 120V (no load) and a speed of 5232 RPM fully loaded at 120V. Can operate from 12VAC or 12VDC up to 120VAC or 120VDC. Size of motor about 2 5/8" x 1 3/8". Features a 9/16" L x 1/8" Dia. slotted shaft. Made by EF Johnson. Prime!

**G1097 \$3.95 ea.**



### Powerful 12V Vibrating Motor

Made for a massage machine this vibrating motor can work on any voltage between 12V up to 30V AC or DC. Has diodes soldered to its terminals to allow for AC or DC operation. The motor itself is about 1.08" Dia. x 1.5" L and it is mounted to a 1.75" x 1.66" mounting plate. The motor shaft has a large weight mounted to it that makes the vibration.

**G14924 \$1.49 ea.**



## Motor Assemblies

### Precision Miniature Motor with Gears & Tach Disk

These were made for a CD drive and are brand new. They consist of a small 1" diameter motor and three gears, one with a black plastic tach disk. The disk has slots that operate in conjunction with a tiny opto interrupter that was to provide speed info to the CD control circuitry. This motor will operate from 1.5VDC up to 12VDC. Sorry, no other specs or info. Because of the way that the final gear is below the rest of the assembly, it makes this useful as a direct drive wheel for making a small robot. Has 2 mounting holes. Size about 2.2"L x .7" thick x 1.1" high (excluding final gear which extends .38" below the rest of the assembly).

**G12770 \$4.95 ea. • 2/\$8.00**



### Precision Micro Cassette Drive

These brand new assemblies contain various nylon gears, metal pulleys and 2 motors. The large one is 1 3/16" dia. x 5/16" thick and has a speed sensor mounted on top. The other motor is a tiny 7/16" dia. x 9/16" L that has a "worm" gear attached. These are very precision units, not like the usual audio decks we see. These are brand new individually bubble wrapped. There are no electronic components with this except for the tape head and 2 motors. Sorry, no info available. These look like a Goldmine bonanza for builders of small robots. Size about 3 1/2" x 2 1/4" x 3/4".

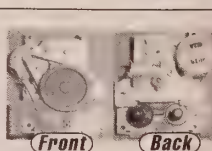
**G2091 \$3.98 ea.**



### Mini Cassette Assembly

Precision made mini cassette assembly is the perfect Robot builder's source for various small gears, springs, pulleys, drive belts and even a small efficient super quiet 1.5V to 7VDC motor (Dia=1"). Overall approximate size of the assembly is 2 1/4" x 2 1/2" x 7/8". Brand new. no data or electronics.

**G4586 \$2.98 ea.**



### Small Car Mirror Adjuster Motor Assembly

Small but powerful 12VDC motors were designed to go into electric mirror adjustment assemblies for an American car. The factory in Mexico finished the production run and had about 10,000 units more that we bought. Assembly has two 1.24" L x .96" Dia. motors with a .6" L x .08" Dia. shaft. These motors are lower speed than most motors of this size and they have a good amount of power for their size. We put a current meter on them and they draw about 20Ma unloaded and about 250ma loaded. Wire leads are about 17" Long. These are brand new and perfect, however they have red paint coating on part of the motor (to make sure that they would be sold as surplus - not used for the original costly assembly). These look like great motors for robots!

**G13327 \$1.49 ea.**





## Bag of Motors

Bag of 5 different small motors to allow you to power various robot projects. Fabulous deal as we sell some of these for several dollars each. All are new – some may have gears attached. All operate from 12VDC or less. May vary from picture shown.

**G13678 \$3.50/Assortment**

## Miniature Vibrator Motor Assortment

Assortment of 4 different miniature vibrator motors made for "silent" alert feature in cell phones and pagers. This package even includes one of our tiny disk vibrators which has no external shaft. The package is for anyone interested in making tiny robots.

**G13547 \$2.49/Assortment**

## Small DC Motor Assortment

Assortment containing different small DC motors. Handy for selecting the right motor for a small robot or motorized project. All new and prime, one may have gear attached. Picture is for illustration only - styles may vary.

**G6622 \$2.00/Assortment**

## Robot Builders Bonanza! Motors & Wheels

Here's a retail blister card which contains 4 rubber tires, 4 chrome wheels, 1 small DC motor, 4 screws and 4 spacers. This is a robot builders dream come true. The small, high RPM motor can operate from 1.5VDC up to 6VDC and with a little imagination you should be able to use these parts as the basic building block for a robot. Originally, they were designed as a "tune up" parts set for small toy race cars. Brand new in blister pack. Sorry, no robot plans to use these available.

**G9816 \$1.75/Set**

## Deluxe Black Coiled Phone Cord

Deluxe coiled cord stretches to 6ft. and retracts to about 12". Features standard modular male plug on each end for all standard phones. Brand new.

**G14368 3/99¢**

## Telephone Line Tester

This handy test unit requires no batteries yet tests all modular 4 prong and direct wire telephone jacks for proper wiring, dead line, and reversed polarity. Features dual color LED, connection cable and test cable with clips (for non-modular jacks). Completely self-contained-just keep it in your tool box until needed.

**G14515 \$2.99 ea.**

## Phone Lamp Flasher

Made by Woods®, this device is great for the hearing impaired or people who have their stereo/TV loud. Whenever a phone call comes in, any lamp that you have plugged into this unit flashes. Features switch to allow the lamp to be on continuously then flash off when a phone call comes in (if you wish), and a switch to turn off the ringer on your phone. Brand new in retail blister package. Has line cord for 120VAC, AC socket and 2 modular phone jacks. Hurry, the last time we had these they sold out fast.

**G14516 \$7.95 ea.**

## Volume Controlled Bell Ringer

Loud extension ringer allows you to be alerted when your phone rings. Use it in your garage, laundry room, patio, deck, etc. Works with or without a phone plugged in. Connect the modular plug of the unit into any phone jack and, if desired, plug your phone into the female modular jack on the bell. Standard mechanical bell for loud sound and has 3 position volume control plus on/off switch. Beige color, new in retail blister pack.

**G14538 \$7.49 ea.**

## Phone/Stereo Silencer™

This amazing device connects up to your phone jack and your stereo to automatically reduce the volume by 20db or 30db (your choice) whenever the phone is picked up. One unit is all that is needed to cover the phones in the house (cordless also). As soon as you finish your call and hang up the volume is automatically restored to its original level. The silencer consists of a small box with a telephone cable to plug into any modular telephone jack, an adapter for the telephone jack (so that both the silencer and a telephone can be connected to one jack if desired), 2 sets of gold plated RCA plug patch cables. No batteries are required, simply plug the audio cables between your CD player, tuner, preamp etc. and your amplifier so that the silencer can mute the audio source selected. New in retail box with complete, easy to understand instructions.

**G1983 ~~\$5.95~~ SALE! \$2.49 ea.**

## Phone Accessories

### Labtec Contact-301 Hands-Free Headset for Cellular Phones

Brand new high quality headset by Labtec features adapters to allow it to be used with Nokia 3190, 3390, 8290, all 51XX series and all 61XX series, Ericsson 500, 600 and 700 series plus almost all current models of Audiovox, AT&T, Motorola, Sony, Toshiba, etc., that have 2.5mm (standard) headset jacks. We tried one with a tiny Motorola V phone and it worked perfectly. Features ergonomically curved, discreet design for long-lasting comfort. Stays securely in position. Has convenient "talk/end" button (not supported by all phones) and shirt clip-on cord. These are brand new in factory sealed Labtec retail package with full factory warranty!

**G13461 \$6.95 ea.**

### Cellular Vibrating Silent Ring Alert

Mini pager like device lets you turn off the ringer on your cell phone and still know when your cell phone is ringing. Now as long as your cell phone is within 3 ft of this pager, the pager will vibrate to alert you when there is an incoming call. Requires no wires and works off the "harmonics" produced by almost all cell phones when a call comes in. These are brand new in a retail blister package. Requires 1 "AAA" battery (not included).

**G1146 \$9.95 ea.**

## Murata Upright Piezo

This 1" high black plastic holder houses a .8" diameter piezo element. It has two PC board terminals and an open back. This can be driven by various IC or transistor circuits and we include a simple transistor drive schematic with this. Brand new.

**G13128 \$1.00 ea.**

## Large Piezo Element

Large blue plastic case piezo element made by Kyocera part # KBT-44SB-1A. These can produce a tremendously loud sound when driven by external circuitry. Size 1 11/16" Dia. (excluding mounting ears) x 9/16" High. Has flexible wire leads.

**G9985 \$1.00 ea.**

**10/\$9.00 • 100/\$80.00**

## Our Smallest Piezo

One of the tiniest piezo elements in a case that we have ever seen. Only 17/32" in diameter by 1/4" high. Prime unit, marked SHR-175. Operates from any transistor or oscillator IC circuit.

**G6859 \$1.25 ea.**

## 3 Lead Piezo Disk

Murata 7SB-34R7 high output self-driven (with feedback electrode) piezo disk requires only 1 transistor to drive it. Resonant frequency is 3.1 KHZ, resonant resistance is  $\geq 160$ , capacitance is 24000pf. size is 34.7mm. These are brand new and perfect for making a clear penetrating loud alarm sound. They create no electronic noise and require 1/10 the power of a comparable electromechanical buzzer. We even include a simple 1 transistor schematic that shows how to use 1 2N3904 transistor and several resistors and several capacitors to drive this piezo. Brand new prime!

**G9303 2/\$1.00**

**G9303A 100/\$40.00**

**G9303B Mfg Box of 800/\$250.00**

## Loud Pulsating Electronic Alert

Piezo alert horn type EAI-435 by Projects Unlimited will work from 3VDC up to 16VDC and provides a loud "attention getting" pulsating tone. The higher the voltage the louder the tone! Completely self contained with internal drive circuitry and color coded power input wires. Size excluding mounting ears 1.65" Dia. x .63" Thick.

**G2095 \$2.49 ea.**

## Small 3 Lead Piezo Disk

Self Oscillating type 3 lead piezo requires simple transistor driver circuit (schematic included). Size about 0.78" Dia. x 0.017" thin with 2" long color coded flexible leads.

**G14378 3/99¢**

## Mini Piezo Disc

Tiny 3/4" diameter Piezo disc element. Murata 7BB-18R2-11.

**G2602 2/\$1.00**

**G2602A 10/\$4.00**



## Miniature Mil Spec RV6NAY 5K Potentiometer

Small panel mount potentiometer by Clarostat mounts in a .25" hole and features a 1/8"Dia. x .25"L shaft. Fully enclosed design, linear taper, 1/2 Watt rating and  $\pm 10\%$  tolerance. Precision made. Comes with panel mtg. nut.

**G14840 99¢ ea.**



## 1K Screwdriver Adjustable Pot

Standard 3/8" bushing pot with 1/4" Dia screwdriver adjust shaft. Pot may vary from photo.

**G5965 2/\$1.00**



## Super Pot Assortment

20 potentiometers of various styles and sizes. Screw driver adjust, duals, long shafts, etc. No hardware.

**G5270 \$5.00/Assortment**



## 100Ω Wirewound Potentiometer With Adjuster

PC board mounting wirewound potentiometer features linear taper and nylon adjuster knob. Size of body is 0.79" Dia. overall height (including knob) is 1.10".

**G14215 \$1.00 ea.**



## Bourns 6187-85B R10K L1.0 10K Linear Taper Pot

Panel mount potentiometer by Bourns comes complete with mounting hardware. Mounts in standard 3/8" hole and features screwdriver adjust 1/4" shaft. Brand new sealed type. Blowout price.

**G14558 99¢ ea.**



## Bourns 20K Model 3266 12 Turn Cermet Potentiometer

Tiny 12 turn trimmer by Bourns is only 7mm x 6.8mm x 4.4mm and features PC mounting. With top adjustment slot. Rated 0.25 watt at 70°. Model 3266 203.

**G14107 2/\$1.00**



## 2 Meg/1 Meg Dual Potentiometer With Switch

Standard 3/8" bushing panel mount potentiometer features audio taper and two shafts. The center is longest and controls the 1 meg pot, the outer, shorter shaft, controls the 2 meg pot. Has SPST push/pull switch rated 6 Amp@125VAC. With panel mounting nut. Blowout price!

**G14790 4/\$1.00**

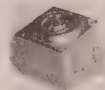


## Bourns 20K Square Potentiometer

Precision made fully enclosed Bourns PC mount potentiometer features a flush slotted adjuster. Bourns# is 8121DB00BA0482 20K 103P10086.

The size of this blue cube is about .64" cubed. Taper is linear. Although we do not know the rating on this single turn pot we would guess based on its size that it has a much greater power capacity than a small trimpot. Prime fully marked. Blowout Price!

**G13736 10/\$2.00**



## Allen-Bradley 275K Miniature Potentiometer

Panel mounting potentiometer by AB features 1/8" Diameter .25" long "D" shaft. Fully enclosed type designed to mount in a .25"Dia. hole in your panel. Brand new with panel mtg. nut. Linear taper

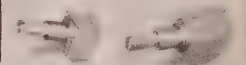
**G14841 99¢ ea.**



## Bourns Mod Pots

Sealed case square pots are found in many types for electronic equipment. These are brand new panel mtg. 3/8" bushing types with 1/2" Long 1/4" diameter shafts for knobs. Complete with panel mounting nut.

Item#	Value	Stock#	Price
81A1DB28A13	5K	<b>G13522</b>	\$1.49
81A1DB28A27A27	5MEG(dual)	<b>G13526</b>	\$2.00



## Rare Large Wirewound Linear Potentiometers

These are perfect for replacement in all types of older radios, test equipment, amplifiers, etc. They are becoming difficult to find and are typically sold for around \$10 each. We have the following 1 11/16" dia. x 3/4" thick. Each has a standard 3/8" dia. panel mount bushing and a 1/4" dia. x 3/8" long shaft for your knob. New - supplied with mounting nut. Make precise adjustments with these large metal case wirewound potentiometers.

Value	Stock#	Price
300Ω	<b>G13517*</b>	\$5.00 ea.
3KG	<b>13521</b>	\$5.00 ea.
25K	<b>G13525</b>	\$5.00 ea.

\* This pot is 7/8" Thick instead of 3/4"



## Small 1K Panel Mount Potentiometer With Switch

Small 0.65" dia. potentiometer mounts in a 0.27" dia. hole in panel. Has a 0.25" dia. x 0.4"L knurled shaft for knob. Features built-in on/off switch. Comes complete with panel mounting nut.

**G14634 3/99¢**



## Motorized 20k Potentiometer

Precision made motorized pot by Shokai features a very compact gear reduction assembly with mabuchi motor. The pot has a panel mount bushing with nut and has a long slotted shaft for a knob (if desired). Pot can be manually turned with shaft or automatically turned by applying any voltage from 3 to 12VDC to the motor. Reverse the polarity to cause the pot to turn in the opposite direction. This precision marvel is great for robotics, servo systems, remote control instrumentation, laboratory equipment, etc. Pot has 3 wires connected to it. Motor has 2 wires connected to it. Size about 1 1/2" x 1 1/2". Linear taper 20K rating. New!

**G9962 \$3.49 ea.**  
**10/\$29.95 • 100/\$265.00**



## Dual Pots

All with standard 3/8" bushing for panel mount nut and 1/4" dia shaft for knob. Pot may vary from photo.

Value	Stock#	Price
4K/25K	<b>G7049</b>	\$1.00
200K/200K	<b>G5955</b>	\$1.00
300K/300K	<b>G5956</b>	\$1.00
3M/3M	<b>G5958</b>	\$1.00
4M/4M	<b>G5959</b>	\$1.00
5M/5M	<b>G5960</b>	\$1.00



## Allen Bradley Type J 3ME6 Potentiometer

Precision made panel mounting pot by AB features fully enclosed design. Mounts in 3/8"Dia. hole in panel and has 1/4"Dia x 3/8"L shaft. Linear taper. Complete with nut.

**G14838 99¢ ea.**



## Dual 10K Audio Taper Potentiometer

These came from an audio equipment manufacturer making high end systems. Standard 3/8" panel mount bushing dual potentiometer features 1/4" dia. x 1/2" long shaft to mount your knob. Size of pot (excluding shaft) is 0.62" W x 0.70" T x 0.60" D. High quality audio taper dual 10K pot made by PIHER. Brand new with mounting nut.

**G13281 2/\$1.00**  
**G13281A 100/\$40.00**



## 500Ω Precision Multiturn

Precision 10 turn potentiometer made by Duncan. Has panel mtg bushing and nut. Brand new prime worth over \$25.00.

**G5126 \$3.75 ea.**



## Bourns PCW1J-C24-CBB103

### 10K Panel Mount Potentiometer

Unique compact potentiometer mounts in a 3/8" Dia. hole in panel and features precise action. As the 1/4" Dia. x 1/2" "D" shaft is rotated, a clicking sound is heard for each minute position. Completely sealed for reliable performance. Size about .9" square x .25" thick (excluding bushing & shaft). Brand new complete with panel mounting nut

**G14786 2/\$1.00**



## Deluxe set screw type knob

With pointer for the above potentiometer.

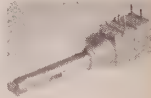
**G14787 2/\$1.00**



## ALPS 50K Pot with Push Switch

Unique pot made by Alps is very compact and has a very precise action. As the 3/16" slotted shaft slowly rotated a clicking sound for each minute position is heard and felt. To operate the momentary switch just push in on the shaft. With panel mounting nut. Size: 3/8" x 7/16" x 1/2".

**G6830 \$1.00 ea.**



## Standard Size Pots

All with 3/8" bushing and standard 1/4" dia shaft for knob. All come with panel mount. Some with switch. Picture is for illustration only and pots may vary from one shown.

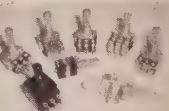
Value	Stock#	Price
30K+	<b>G5933</b>	\$1.00 ea.
250K+	<b>G6721</b>	\$1.00 ea.
+ With switch		



## Audio Taper Pot Assortment

These pots were used by A/D/S to make very high quality car audio products. All are audio taper and brand new. Sorry, no hardware. Special purchase - Blowout price. Package of 8.

**G13276 \$2.00/Assortment**





## Power Rheostats

Power rheostats for numerous applications. All are panel mount with bushing and nut. Each has a 1/4" diameter shaft. We have the following wirewound type available.

Stock#	Value	Size(Dia.)	Watts	Price
G5096	250Ω	1 1/2"	25	\$6.00

## Spectrol 25 Turn Linear Trimmer Potentiometers

Spectrol Type 64Z 25 turn 10mm x 10mm x 5mm PC mount precision trimmer potentiometer. These have the adjustment slot on the right angle edge (as opposed to the top). Brand new prime at a blow-out price! We have 2 values each rated .5watt ± 10% tolerance.

1KΩ	G13452	\$1.00 ea.	• 100/\$75.00
10KΩ	G13456	\$1.00 ea.	• 100/\$75.00

## Bourns 100K Model 3296 25 Turn Trimmer Potentiometer

Multiturn trimmer by Bourns is about 10mm x 10mm x 5mm and features PC mtg. with right angle adjustment slot. Rated 0.5 watt at 70°C. Tolerance ± 10%. Has end of rotation "click" mechanism. Brand new - High quality.

G13577 \$1.00 ea.

Factory Tube of 50/\$39.00

## SMD Micro Size Trimmer Resistors

Ceramic base micro size SMD type adjustable trimmer resistors are only .17" x .15". Prime linear taper units. Available in three values. High quality trimmer resistors!

10K	G2028	10/\$2.00
50K	G2029	10/\$2.00
500K	G2030	10/\$2.00

## Bourns 50K Model 3266 12 Turn Cermet Trimming Potentiometer

Tiny 12 turn trimmer by Bourns is only 7mm x 6.8mm x 4.4mm and features PC mtg. with top adjustment slot. Rated .25watt at 70°. Low temperature coefficient of ± 100 PPM/°C. Model 3266W 503.

G13410 \$1.25 ea.

100/\$85.00 • 1000/\$750.00

## Mini 200K Trimmer Pot

Single turn horizontal trimmer resistor features a 1/4" diameter blue adjustment knob and standard .20" lead spacing on the outer leads. Ceramic base with plastic knob.

G4049	4/\$1.00
G4049A	100/\$22.00

## Special Purpose 5K 10mm Horizontal Mount Single Turn Trimmer Resistor

Made by Motorola this single turn trimmer resistor is rated 5K. It is a linear taper type and has adjustable slot at top. Type RVF8P01A-502. Prime!

G15327 10/\$1.00

## Vertical Mount Mini 10K Trimmer Resistors

These are small 10K 3 lead vertical mount trimmer resistors. They feature a lead spacing between their outer leads of 3/16" and have a smooth action white control knob. They are on tape and reel. Prime!

G8668	10/\$1.00
G8668A	100/\$9.00
G8668B	1000/\$80.00

Visit us online at [www.goldmine-elec.com](http://www.goldmine-elec.com) to see all of our Pots and Trimmers!

## 10K AB Mod Pot®

High quality Allen Bradley Mod Pot® with standard panel mount 3/8" bushing and panel mount nut. Features screwdriver, adjust shaft and gold plated pins for hookup. AB part # 70MIN024S.

G1544 \$1.00 ea.

## Horizontal Mount Compact Trimmer Pots

Compact single turn ceramic base trimmer resistors features plastic turn knob and horizontal PC mounting. All are linear taper. Approx size 11mm(L) x 9.0mm(W). Lead spacing is 5mm between 2 leads and 10mm to center lead.

Stock#	Value	Price
G1802	1KΩ	4/\$1.00
G1803	5KΩ	4/\$1.00
G1804	75KΩ	4/\$1.00
G1804A	75KΩ	100/\$15.00

## Trimmer Resistors

Stock#	Value	Fig.	Orientation	Price
G6273	5K	C	Horizontal	8/\$1.00
G5995	20K	A	Vertical	5/\$1.00
G5993	1Meg	B	Vertical	5/\$1.00
G5994	3Meg	B	Vertical	5/\$1.00

## Multiturn Trimmer

### Potentiometer Assortment

Assortment of 4 precision multiturn trimmer potentiometers. Various values, all 100% prime fully marked and new. Most are square thin types with 3 flexible insulated wire leads, but some packages may contain 3 lead rectangular PC board mount types. Any one of these trimmers sell for up to 10 times the price of this entire package!

G14053 99¢/Assortment

## Bourns 25 Turn Cermet Trimming Potentiometers

Multiturn trimmer by Bourns is about 10mm x 10mm x 5mm and features PC mtg. with top adjustment slot. Rated .5watt at 70°C. Tolerance is ± 10%. Has end of rotation "click" mechanism. Brand new prime. We have 2 values.

Y102	1KΩ
G13405	\$1.00 ea. • 100 for \$75.00
Y103	10KΩ
G13408	\$1.00 ea. • 100 for \$75.00

## 100K Vertical Trimmer Resistor

Small 3 leg trimmer resistor features linear taper and small white knob with slot. Size about 0.44" high (excluding pins). Spacing between the centers of the outer pins is 0.18".

G14349 10/99¢

## 200K Vertical Trimmer Resistor

Small 3 leg trimmer resistor features linear taper and small white knob with slot. Size about 0.44" high (excluding pins). Spacing between the centers of the outer pins is 0.18".

G14347 10/99¢

## Slide Pots



Stock #	Value	Fig.	Price
G5220	1K	A	2/\$1.00
G5992	2K	B	4/\$1.00
G3279	10K	C	4/\$1.00
G5131	100K	D	2/\$1.00

## 1K Trimmer Pot Blowout

1K horizontal PC mount 7mm Dia. trimmer resistors. These are supplied on cut lengths of tape and reel and are prime. Linear taper with handy slotted knob for precise adjustment. Blowout price.

G1928	10/\$1.00
G1928A	100/\$8.00

## Horizontal Mount 470Ω Mini Trimmer

These compact 3 lead horizontal trimmer resistors feature a small adjuster wheel on top. Size of body only 1/4" square. These are on tape and reel.

G9226	10/\$1.00
G9226A	Full mfg box of 1000/ \$75.00

## 500K SMD Trimmer Resistor

Tiny SMD trimmer resistor is precision made with a ceramic base. Linear taper 3 lead type with top adjustment slot. Size only .15" L x .18" W x .06" H. Prime.

G12907	5/\$1.00
G12907A	100/\$15.00

## Precision Made 1 Meg Trimmer Potentiometer

Small 3 lead linear taper trimmer potentiometer by Mepco is only 0.25" dia. x 0.20" high. Features black case with slot on top for adjustment. Mepco part # ET 14 P 105.

G14351	3/99¢
G14351A	Factory Box of 100/\$25.00

## 100K Mini Trimpot

Nicely made 100K horizontal mount linear trimpot features a slot on top for adjustment. Size about 1/4" Dia. Has 3 legs for PC board mounting.

G1418	10/\$1.00
G1418A	100/\$8.00
G1418B	1000/\$50.00

## Miniature 20K Trimmer Resistor

This small 3 leg trimmer resistor is only 0.27" sq x 0.18" tall. Has slot on top for adjustment. These are on tape & reel.

G14223 10/\$1.00



# Potentiometers & Trimmer Resistors

**ELECTRONIC  
GOLDMINE**

## Small Trimmer Resistors Vertical Type



Value	Stock#	Price
1K	G9040	5/\$1.00
4.7K	G9042	5/\$1.00
10K	G9041	5/\$1.00

## Quad 50K Trimmer Potentiometer

Consists of four 50K vertical mount trimmer resistors with a common shaft. Each trimmer has 3 leads and is .39" square. Shaft is .5" long x .25" diameter for a knob if desired. PC board mounting type. **G13126 \$1.00 ea.**



## Multi Turn Trimmers with Indicators

Precision multi turn trimpots with special plastic indicator which moves as the shaft is turned. Features handy ridged grip shaft to allow for hand adjustment or you may use a standard screwdriver to adjust. **G983 25K Linear Taper 4/\$1.00**



## Radios

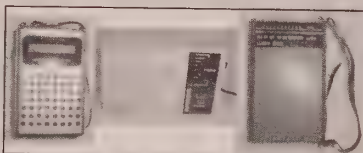
### 1 IC Speaker AM Radio Kit

This radio kit operates from a sophisticated radio IC and has a powerful antenna coil with a high grade ferrite core. Volume control, two transistor audio amp with power transistor. Operates on 9V battery (not included). Skill level 1. **C6749 \$15.55 ea.**



### Classic Portable AM Radio

These will remind you of the heydays of the 60's when everyone had their portable transistor radio with them! Operates from 2AA batteries (not included) and features a superhet circuit with built in full volume speaker, tuning control, volume control, 2.5mm earphone jack (earphone not included) and carrying strap. These are brand new! Styles, color and brand may vary from picture shown. Hurry, limited quantity. Check out the price of these at your local antique store if you want a shock! **G2211 \$4.95 ea.**

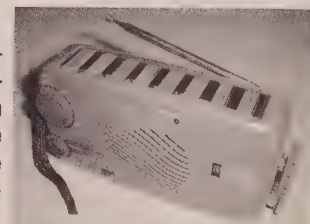


### Assortment of 3 Different AM Radios

**G2212 \$12.95**

### Solar Powered / Dynamo AM/FM Radio

This radio is great for emergencies, camping, vacation travel, remote living, etc. It does not require batteries to operate because it has built in nicad rechargeables that can be recharged by the sun or a built in hand crank. The sound from the built in speaker is good quality and has room filling volume. These are blue in color and feature a tuning LED, power LED, charge switch, built in dynamo crank, built in solar panel, AM/FM switch, tuning control knob, volume control, carry strap, built in extendable antenna and a battery compartment for 2AA batteries (not included and not needed—for backup use only). Brand new in retail box—nothing else to buy. Makes a great gift for anyone! **G1539 \$29.95 ea.**



## Relays- Control Modules

### Grayhill Power Input Module

Type 70G-1DC15G is commonly used in low voltage (solar) applications. Input is 15VDC Logic. Control output is 35-60VDC/VAC. Brand new, labelled but we do not have spec sheet or data. Has green LED indicator on top. Size 1 7/8" x 2 3/16" x 7/16". **G2284 \$1.99 ea.**



## 4.5V Types

### Nais TX2-L2-4.5V 2 Amp High Capacity Relay Latching 2 Coil Type

Small .6"L x .29"W x .30"H relay operates on 4.5VDC and features a breakdown voltage between contacts and coil of 2,000V. Set voltage 3.38V, reset voltage 3.38V, nominal operating current 44.5ma, coil resistance 101.2Ω and DPDT contacts rated 2Amp 30VDC. **G14260 \$1.79 ea.**



### NEC VB2-4.5SNU DPDT Micro Sized Relay Single Coil Latching 4.5VDC

Tiny 0.42"L x 0.23"W x 0.297"H relay features a coil resistance of 202.5Ω and DPDT contacts rated 1 amp. This relay has 8 tiny leads bent over for SMD mounting, however, these leads can be simply bent up to allow for regular thru hole PC board mounting. **G14261 \$1.29 ea.**



### G6S-2F-DC4.5 Omron SMD Relay

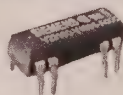
Small SMD relay by Omron features DPDT contacts rated 0.5Amp @125VAC. Coil is rated for 4.5VDC and features an impedance of 145Ω. Even though these are listed as SMD- you can bend the leads straight for thru hole mounting. Overall size: 14.8mm(L) x 9.2mm(H) x 7.3mm(W). Blowout price! **G14650 2/99¢**



## 5V Types

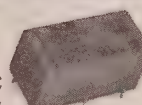
### Siemens 5VDC Dip Reed Relay

Tiny dip relay can plug into a 14 pin IC socket. Has "1 form a" standard contacts (SPST). Brand new. -Equivalent to Tyco 0-1393763-1 **G14892 2/\$1.00**



### NAIS DS2E-S-DC5V 5V Relay

Very compact 5VDC relay features DPDT contacts rated 2Amp @ 30VDC or .6Amp @ 125VAC. Coil resistance is 125Ω. Fully enclosed- Has 8 PC pins. Size only .79"L x .39"W x .38"H. Coil is polarized type. **G15204 \$1.99 ea.**



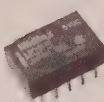
### Compact CP Clare 5VDC Relay

CP Clare compact relay features 5VDC 169Ω non polarized coil, and DPDT contacts. CP Clare part# is EMS2C1505. Size .78"L x .38"W x .44"H. Completely sealed case with 8 PC pins. **G15205 \$1.79 ea.**



### Low Profile DPDT 5VDC Relay

Super compact 5VDC relay by Midtex part# MQP5 features 178Ω coil and DPDT contacts rated 0.5 amp@125VAC or 1 amp@30VDC. Sealed case is only 0.55"L x 0.35"W x 0.19"H excluding the 10 PC pins. **G14363 \$1.49 ea.**



### Coto 2911-05-301 5VDC SPDT Reed Relay

Miniature reed relay features 5VDC non polarized coil with a resistance of 230Ω. Contacts are SPDT rated 3 watts. Size only 0.80" L x 0.24"W x 0.28" H. Has 5 PC pins. **G14166 \$1.49 ea.**



### Magnecraft W107DIP-5 Reed Relay

Small reed relay with built-in clamping diode features 5VDC 500Ω coil and SPST contacts rated 0.5Amp. Fully enclosed type fits in standard 14 pin IC socket. **G13763 \$1.00 ea.**



**Tube of 25/\$22.00 • 100/\$80.00**

### Magnecraft W171 DIP-17 5VDC Dip Relay

Small size dip relay features 5VDC 500Ω coil and SPST normally closed contacts rated .5amp. Has internal clamping diode across coil. **G13575 \$1.29 ea.**



### Omron G5Y-254P-1 Relay 5VDC Coil

Enclosed relay features 20 pins and weird contact arrangement. See Web for details. Size 1.27"L x 0.48"W x 0.34"H. **G14048 \$3.49 ea.**



### Aromat Tiny 5VDPDT Relay TN2E-5V

Features 2 form C (DPDT) contacts rated 1 amp. Coil is 5VDC 178Ω size only 0.55"L x 0.22"W x 0.38"H. Features 10 PC leads. **G14212 \$1.49 ea.**

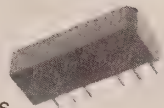




### 9002-05-02 Coto Reed Relay 5VDC 6 Pin Sip

High quality 6 pin Sip 5VDC reed relay by COTO features a coil resistance of 350Ω and a contact rating of 10 Watts. Contacts are SPST. Size of relay about 0.75" L x 0.20" W x 0.27" Tall. Coil is polarized.

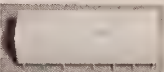
**G14162 99¢ ea.**  
**Factory Tube of 25/\$20.00**



### NAIS DS4E-S-DC5V 4PDT 5VDC Relay

Made by NAIS (Aromat) this compact relay features fully enclosed case for PC board mounting. Coil is 5VDC 125Ω. Contacts are 4PDT rated 2Amp 30VDC or .6Amp 125VAC. Size 1.38" L x .38" W x .38" H. Prime factory fresh part.

**G12902 \$3.95 ea.**



### Super Sensitive 5VDC Mini Reed Relay

Super sensitive reed relay features a 700Ω coil and SPST contacts. Size: 1 1/16" x 3/8" x 3/8".

**G4194 \$1.00 ea.**



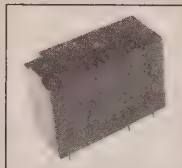
### SPDT 10Amp@250V 5VDC Relay

Fully enclosed 5VDC relay is 1.11" L x 0.49" W x 0.79" H. Features a 5VDC 267Ω coil and SPDT 10Amp@250VAC contacts. Has 5 PC pins. NAIS part# JWIFSN-DC5V.

**G14262 \$1.50 ea.**

As above but with 12VDC coil. NAIS part# JWIFSN-DC12V.

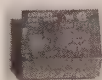
**G14263 \$1.50 ea.**



### Omron GBC-1114P 5VDC 10 Amp Relay

Fully enclosed relay features SPST contacts rated 10Amp @ 250VAC. Coil voltage 5VDC. Size only 3/4" L x 9/16" W x 3/8" H. Brand new with solder pins.

**G1619 \$1.49 ea.**



### Omron G6HU-2 5VDC DPDT Relay

5V single coil latching low signal relay. Size .55" L x .35" W x .20" H. Rating is 1Amp at 30VDC or 1/2amp at 125VAC. Brand new-Prime!

**G2011 \$1.50 ea.**



### CP Clare MRBIA05 5VDC Relay

Compact relay by CP Clare features 5VDC 225Ω coil and 1 form A (SPST) contacts. Size: 1.12" L x .35" W x .35" H. Contacts rated 200V 0.5Amp. Brand new.

**G2073 \$1.00 ea.**  
**10/\$8.00 • 100/\$75.00**



### Surface Mount 5VDC DPDT Relay

Tiny SMD relay features coil voltage of 5VDC and DPDT contacts rated 1Amp 30VDC, .5A 125VAC. Size only 9/16" L x 3/8" W x 5/32" T. Made by Omron G6H-2F.

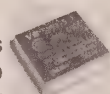
**G7453 \$1.00 ea.**



### 5VDC DPST Relay

Made by Takamisawa this relay features a completely sealed case and 5Amp 250VAC contacts. Size about 1.14" L x .5" W x 1" H. Part# 5MBU-5. Coil resistance about 34Ω.

**G12969 \$1.00 ea.**



### 3PDT 6VDC Heavy Duty Relay

Guardian Part #1315PVS A 410 367283-11 relay features 3PDT contacts rated 5Amp 120VAC. Size 1 3/8" x 13/16" x 1 1/16". Has solder pins and dust cover. Prime.

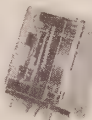
**G9473 \$1.00 ea. • 10/\$6.00 • 100/\$55.00**



### 6V DPDT Relay

Enclosed clear dust cover type relay features PC board pins and DPDT 7Amp, 240VAC contacts. Size: 1 1/4" T x 3/4" W x 1 1/16" D. Coil is rated 6VAC, but it will also work on 6VDC.

**G13854 \$1.00 ea.**



### Potter & Brumfield R10-E1-Y4-V52 6VDC 3PDT Relay

Super relay by Potter & Brumfield features 3PDT 2Amp @ 120VAC contacts. Has clear dust cover and is 1.16" tall x 1.12" L x .69" W. Has solder eyelets.

**G13701 \$3.95 ea.**



### American Zettler 6VDC SPDT Relay

Type AZ8-1CH-6DE features small size and SPDT 6Amp 240VAC contacts. Overall size: .83" L x .62" W x .56" H. Fully enclosed type with solder pins. Coil resistance is 81Ω.

**G12807 \$1.00 ea.**



### 9VDC SPST Compact Relay

OEG Part# OJE-SS-109LMF features a 9VDC coil and 3Amp 250VAC SPST contacts. Fully sealed PC mount relay is only .72" L x .40" W x .57" H.

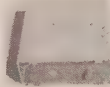
**G13565 \$1.00 ea. • 100/\$85.00 • 1000/\$500.00**



### 10Amp Contact SPST 9VDC Relay

Fully enclosed relay by OEG type SDT-SS-109DM features 9VDC coil and SPST 10Amp 250VAC contacts. Size only 24mm (L) x 10mm (W) x 24mm (H). Has solder pins for PC mounting on bottom. Brand New.

**G1996 \$1.25 ea.**  
**10/\$11.00 • 100/\$105.00 • 1000/\$999.00**



### 12VDC Sensitive Relay

Features operation from 12VDC with a coil resistance of 700Ω. Type AZ951-1C-12DSE by American Zettler. Size only 0.62" x 0.41" x 0.44". Has 5 PC pins. Contacts are 1 form C rated 1 amp @ 30VDC/125VAC.

**G13988 \$1.00 ea.**



### 12VDC SPST 10Amp@250VAC Relay

Fully enclosed relay by OEG type SDT-SS-112DM features PC pins and SPST contacts rated 10 amps@250VDC. Coil is 12VDC 278Ω. Size 1" tall x 0.97" W x 0.4" thick. Blowout price!

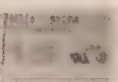
**G14337 99¢ ea.**



### NAIS 12VDC DPDT Miniature Relay Sensitive Type

Type D2E-M-DC12V coil and DPDT 2Amp @ 30VDC contacts. Size is only .8" L x .4" W x .4" H. Polarized coil is 350Ω. Fully enclosed type with PC board pins.

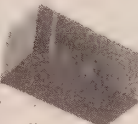
**G12764 \$2.00 ea.**



### Zettler AZ830P Polarized Bistable (Latching) Relay 12VDC DPDT

Features high sensitivity, epoxy sealed case, DPDT 1Amp@120V contacts and 10 PC pins. Size only 0.79" L x 0.39" W x 0.38" H. Features 2 coils. To set 12VDC is applied and to reset about 8.4V is required. Coil resistance 800Ω. Complete part# is AZ830P2-2C-12DSE. Brand new!

**G14145 99¢ ea.**  
**Factory Tube of 25/\$20.00**



### Sensitive Aromat NAIS 12VDC DPDT Miniature Relay

Type DS2E-M-DC12V features a fully enclosed case and 8 PC mount pins. Contacts are DPDT rated 2Amp @ 30VDC or .6amp @ 125VAC. Yellow case is .79" L x .39" W x .39" H. Polarized 12VDC 350Ω coil requires only 34ma to operate. Prime factory part.

**G13506 \$2.00 ea.**



### Compact Heavy Duty 12VDC Relay

This small relay 7/8" x 3/8" x 15/16" features 10Amp @ 250 VAC SPST contacts. Made by OEG type OST-S-112DM TV5. Sealed case with removable dust cover and wire pin leads.

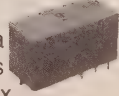
**G8784 \$2.95 ea.**  
**10/\$27.50 • 100/\$250.00**



### Potter & Brumfield 12VDC DPDT Power Relay RT 424012F

This fully enclosed relay features a 360Ω 12 VDC coil and DPDT contacts rated 8Amps @ 240VAC. Size 1.14" L x .5" W x .62" H. Has PC pins.

**G14897 99¢ ea.**



### TYCO VF4-11F11 Automotive Relay

Plug in relay for automotive use features 12VDC 90Ω coil and SPST N.O. 40Amp contacts. Size about 1.12" x 1.12" x .987" H.

**G14898 99¢ ea**





## American Zettler Sensitive Type 12VDC SPDT Relay

Type AZ8-1CH-12DE relay features small size and SPDT 6Amp 240VAC contacts. Overall size: .83"L x .62"W x .56"H. Fully enclosed type with solder pins. Coil resistance is 324Ω. Only requires 37ma to operate.

**G12808 \$1.49 ea.**

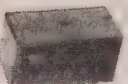


## Omron G5V-2 12VDC DPDT Miniature Relay

Omron relay features DPDT contacts rated 2 Amp @ 30VDC or .6 Amp @ 125 VAC. Size only .79"L x 0.39"W x .43"H. Has 8 PC board pins.

**G14049 \$1.75 ea.**

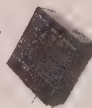
**Factory Tube of 20/\$30.00**



## Omron G5P-1A 12VDC Relay

Sealed case compact 12VDC relay features SPST 5 Amp@250VAC contacts. Size 0.93"L x 0.38"W x 1" Tall. With PC pins.

**G14616 \$1.00 ea.**



## Omron Super Sensitive 12VDC DPDT Miniature Relay

Type G5V-2-H1 by Omron features 1amp @ 24VDC DPDT contacts and very low current requirement of only 12.5mA at 12VDC. Coil resistance about 960Ω. Size about .79" L x .38" W x .43" H. With 8 pc. pins and fully enclosed case.

**G13127 \$1.99 ea.**



## 4PDT 12VDC Compact Relay

Super compact 4PDT relay features 5VDC coil and .6A 125VAC or 1A up to 30VDC contacts. Size only 1 3/8" x 3/8". Made by Omron G6A-434P-ST-US.

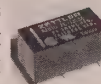
**G6814 \$2.50 ea.**



## Zettler Sensitive 12VDC DPDT Relay

Compact 12VDC DPDT relay features 2Amp 30VDC or 1 Amp 120 VAC contact rating. Fully enclosed case is 20mm (L) x 9.85mm (W) x 9.5mm (T) excluding pins. Coil resistance is 740 Ω. Made for PC board mounting. Zettler part #AZ830-2C-12DSE.

**G13280 \$2.00 ea.**

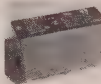


## Omron Compact G6B-1114P-US 12VDC SPST Relay

Compact fully sealed SPST relay with contacts rated 5amp 250VAC. Size only .78" L x .38" W x .37" H. With solder pins for PC board mounting.

**G13564 \$1.00 ea.**

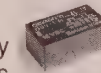
**100/\$80.00 • 1000/\$450.00**



## Omron 12VDC G5Y-1-H Relay

Compact relay is fully sealed and is only .8"L x .45"W x .35"H. Made for applications in microwave bands. Features SPDT contacts and PC mounting.

**G13442 \$1.00 ea.**



## OEG 12VDC 10Amp SPDT Relay

Small sealed relay features SPDT 10amp@120VAC contacts. Type OUDH-SS-112D is .84" L x .65" W x .57". Has PC pins.

**G13481 \$1.59 ea.**



## NTE R40-1102-12VDC DPDT Relay

Compact fully enclosed PC mount relay with 12VDC coil and 2amp DPDT contacts. Size .8"L x .38"W x .46"H. Prime in mfr. box.

**G13443 \$2.00 ea.**



## 12VDC Relay

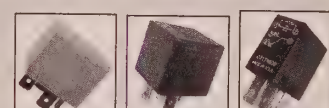
Compact polarized DPDT relay. Contacts rated 1Amp at 120V or 2Amp at 30VAC DS2YE-S-DC12V.

**G6810 \$2.00 ea.**



## 12VDC Auto Relays

Heavy duty auto relays with terminals that plug into sockets in the car! Brand new. Check the current ratings!



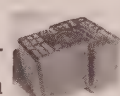
Manufacturer	Part#	Current Rating	Type	Stock#	Price
WEHRLE	20 200 100	30Amp	SPDT	G14706	\$1.49 ea.
BOSCH	0 332 209 137	30Amp	SPDT	G14707	\$1.49 ea.
TYCO	VFM-15F41-S01	20Amp	SPDT	G14708	\$1.49 ea.

## 22V-24V Types

## Potter & Brumfield T9AS1D12-22 22VDC

Relay by P&B features SPST 30Amp at 240VAC contacts and a 22VDC coil.

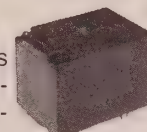
**G13667 \$1.49 ea.**



## 24 VDC Coil SPDT 10Amp 125V Contacts NAIS AJS1312 Relay

Compact PC mount relay by NAIS is only .86"L x .62"W x .62"H. Fully enclosed type with PC pins. Coil resistance about 1550Ω.

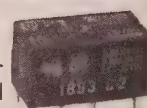
**G14902 \$1.99 ea.**



## G5V-2 24VDC DPDT Relay

Small fully enclosed PC board mounting relay features DPDT contacts rated .6A @ 125VAC or 2 Amps @ 30VDC. Has 8 PC pins. Size .8"L x .38"W x .43" tall.

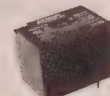
**G14901 \$2.95 ea.**



## Siemens T7NSDI-24 24VDC SPDT Relay

Small fully enclosed relay features SPDT contacts rated 10amp@120VAC or 10amp@28VDC. Size: 0.82"L x 0.62"W x 0.64"H. Features 5 PC pins. Coil voltage 24VDC 1620Ω.

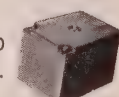
**G14140 99¢ ea. • Factory Tube of 25/\$20.00**



## NAIS JS1-24VDC SPDT 10Amp Relay

Compact relay features fully enclosed dust cover and SPDT 10Amp @ 125VAC contacts. Size only 0.86"L x 0.62"W x 0.64"H. Has 5 pins.

**G13916 99¢ ea.**



## Super Heavy Duty Relay SPST 70 Amp Contacts

Potter & Brumfield 24VDC relay with SPST contacts rated 70 amps. Has solid heavy duty solder posts on bottom. Size 1" square x 7/8" high. Brand new. Potter & Brumfield part # VF7-11H12-Z02.

**G1760 \$1.29 ea. • 10/\$12.00 • 100/\$110.00 • 1000/\$1000.00**



## 24VDC DPDT 10Amp@250VAC Relay

Type HL 2-P by NAIS features DPDT contacts rated 10Amp@250VAC. Has clear dust cover and PC mount terminals size 1.06" x 0.83" x 1.35"H. Coil resistance 665Ω.

**G14256 \$1.75 ea.**



## 24VDC NAIS Relay

Slim power relay with high capacity inrush current capability. Contacts are SPST (1 Form A) rated 5Amp 277VAC or 5Amp 30VDC. Max switching power 1,385VA, 150W. Coil resistance 1,087Ω (±10%). Size: 24mm x 11mm x 25mm. Brand new prime relays.

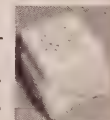
**G13670 \$1.00 ea.**



## Guardian Electric 24VAC DPDT Relay

Type 1360 series by Guardian features a 24VAC 60HZ coil and DPDT 3Amp@120VAC or 5Amp resistive contacts. Model# A410-364373-00. Features sealed dust cover and pc pins. Size about 1.06" sq. x .93" H.

**G13728 \$1.00 ea.**





## AC Relays-120V Types

### Magnecraft 120VAC 10Amp DPDT Relay

Heavy duty relay with clear dust cover features standard 120VAC coil and 10Amp@240VAC DPDT contacts. Has solder terminals on bottom for connection. Size (excluding terminals) about 1.33"T x 1.08"L x 0.84"W. High quality relay Awesome deal!

**G13864 \$2.00 ea. • 10/\$18.00**



### Omron 120VAC DPDT Relay

Omron type MY2N-AP 120VAC relay features DPDT contacts rated 5Amps@240VAC. Has "snap on" clear plastic dust cover and solder eyelet legs. Size about 1.38"T x 0.82"W x 1.08"L. Super quality - reliable relay! Incredible price!

**G13860 \$1.00 ea. • 10/\$8.00 • 100/\$75.00**

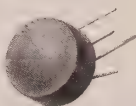


## Miscellaneous Relays

### LR-2 Electronic Latching Relay Module For Momentary Break Contact

This small 1" dia. module connects up to your 6V battery and your normally closed switch contacts. If the switch contacts break (open) 6VDC is "latched on" to whatever you connect the output to, such as a 6V alarm siren, a radio, a DC pump, etc. Max. current at the output is 1/2 amp. Great for burglar alarms.

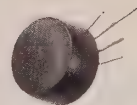
**G13926 \$1.49 ea.**



### LR-1 Latching Relay Module For "Momentary On"

This module is similar to our other latching relay module, however this one requires a "momentary on" not a break to latch a 6VDC at 1/2Amp output. Battery and switch not included. Module size about 1" Dia. Great for burglar alarms.

**G13935 \$1.49 ea.**



### NAIS PhotoMos Relay Aqv210EHAZ

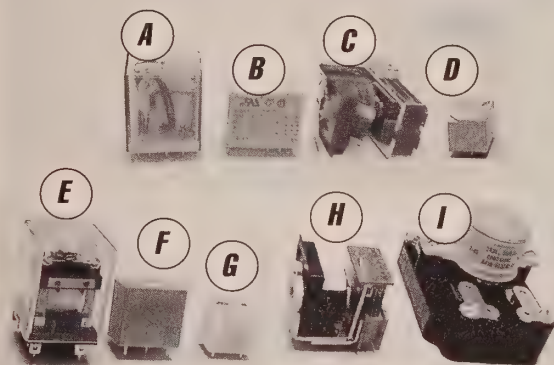
Made to control low-level analog signals, this PhotoMos relay features extremely low closed-circuit offset voltage to enable control of low level analog signals without distortion. These allow control with low-level input signals. This is a 6 pin SMD type part that is rated 350V@130ma for load and 3V@50ma for input. See complete specs on the Internet. These are brand new.

**G14592 3/99¢**



### Guardian Relays

Prime relays made by famous Guardian Electric Company. All are brand new. Many have clear or opaque dust covers or sealed covers. Pictures represent size and shape only—terminal types on bottom may vary.



Voltage	Fig	Part#	Contacts	Size	Stock#	Price
6VAC	A	A410-36300-11	5amp 4PDT	1-1/16" x 13/16" x 1-3/8"	G9633	\$1.50
9VDC	B	A410-367009-18	5amp SPST	13/16" x 5/8" x 1/2"	G9635	\$1.00
20VDC	D	A410-367392-59	6amp SPDT	7/8" x 5/8" x 5/8"	G9640	\$1.00
48VDC	F	A410-365391-108	10amp SPDT	1-1/4" x 3/4" x 1-3/16"	G9646	\$1.25
48VDC	G	A410-366316-14	3amp SPDT	1" x 11/16" x 3/4"	G9647	\$1.00
90VDC	A	A410-365372-15	13amp DPDT	1-1/16" x 13/16" x 1-3/8"	G9650	\$1.75
110VDC	G	A410-366187-16	10amp SPDT	1-3/8" x 1-3/8" x 2-1/8"	G9651	\$1.25
110VDC	A	A410-367152-16	15amp SPDT	1-1/16" x 13/16" x 1-3/8"	G9652	\$1.75
240VAC	A	A410-365627-16	13amp DPDT	1-1/16" x 1-3/16" x 1-3/8"	G9661	\$1.75
240VAC	A	A410-367028-10	13amp DPDT	1-1/16" x 13/16" x 1-3/8"	G9662	\$1.75
240VAC	A	A410-367151-16	15amp SPDT	1-1/16" x 13/16" x 1-3/8"	G9663	\$1.75
240VAC	H	A410-061494-05	10amp DPDT	1-3/4" x 1" x 1-3/4"	G9664	\$1.75
240VAC	C	A410-063646-00	10amp 3PDT	1-5/8" x 1-1/8" x 1-3/4"	G9665	\$2.00
240VAC	I	A410-063145-00	25amp DPST	3-1/4" x 2-1/2" x 2"	G9666	\$5.00

## Remotes

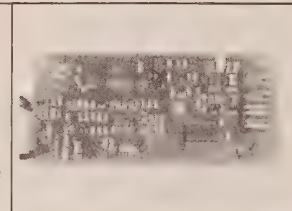
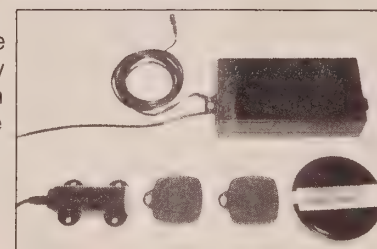
### Latest Technology Key Fob Proximity Detector

These are being used to prevent thefts of autos, provide increased security in buildings, to operate electronic gates, garage doors, computers, etc. Consists of a small key fob that is totally self contained (no moving parts or batteries) and a proximity sensor and associated receiver circuit box. When the key fob is brought within 2.75" of the sensor, the unique data encoded in the key fob is transferred to the sensor/receiver, activating whatever device-relay, solenoid, lights, locks, etc.-that you have connected to the receiver. These are brand new units consisting of 2 key fobs, a master programmer key in a sealed container, and a receiver box with sensor. The receiver is very sophisticated and cannot be activated except by the key fobs that come with it. If someone steals one of the key fobs you can program a new code with the master programmer key fob into the remaining fob so that the stolen one will no longer work. The coding of new keys does not use a computer and can easily be completed in a few seconds. The system is absolutely amazing. The receiver operates on 12VDC and requires only the addition of a simple relay and transistor or relay, transistor and 4027 IC circuit to control your choice of items.

**Details:** The key fob is completely waterproof, weatherproof and crunch resistant. Size : 1.4" square and is meant to be attached to your keychain and has a recessed circle to allow you to place a custom label (if desired). The sensor is about 2.1" x 1.3" and is attached by a 20" cable to the 4 1/8" x 2 1/8" receiver box. The sensor can be mounted in wood, behind glass or plastic and still function perfectly. The sophisticated receiver uses 6 ICs and outputs a momentary voltage level when the correct key fob is brought within 2.75" of the sensor. We supply 2 simple schematics for the control circuit you need to connect to the receiver. One is momentary which means you will have a relay closure as long as the fob is placed next to the sensor. The other circuit uses a 4027 IC and it allows you to wave the fob next to the sensor to latch the relay "on." The next time you wave it near the sensor, the relay turns "off." Parts for either of the circuits are sold separately below. This new technology has thousands of applications. As soon as you buy one of these units you'll want to purchase more as you will realize all of the different ways it can automate or control security tasks. Brand new with complete instructions.

**G12915 \$29.95 ea.**

**Exciting New Technology!**



**Momentary Circuit Parts for above:** Consists of a transistor, relay, several diodes, a capacitor and resistor (no PC board). With easy to build schematic.

**G12916 \$2.50**

**Latching Circuit Parts for above:** Consists of a transistor, several resistors, several diodes, a 4027 IC, IC socket, several capacitors, and a relay (no PC board). With schematic.

**G12917 \$3.50**



# Remotes

**ELECTRONIC  
GOLDMINE**

## Handheld RF Transmitter/Satellite Remote

Prosat P222 remote control features RF (not infrared) transmission. Has four buttons labelled "Satellite Name", "Satellite Number", "East", and "West". Operates on 9V battery (not included). Size about 5 3/4" L x 2 1/2" W x 7/8" Thick. Brand new but we have no data, so we are selling these "AS IS" for experimenting with RF.

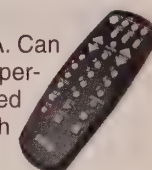
**G14100 \$1.99 ea.**



## Brand New RCA Universal Remote

This is a very popular compact universal remote made by RCA. Can control DVD players, VCR's, TV's, satellite and cable boxes. Operates on 2 "AAA" batteries (not included) and features dedicated menu key, built-in sleep timer and simple setup with code search function. Brand new in retail blister package. Blowout price!

**G14860 \$3.99 ea.**



## General Instrument IR Satellite Remote Control

Remote control unit made for a satellite TV system by General Instrument. Type 1NRC-42. Operates on 2 AA batteries (not included). Brand new - great for experimentation or custom IR remote control setups.

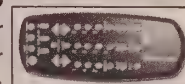
**G13874 \$1.29 ea.**



## RCA Universal DVD, TV, VCR, Cable Box Remote

Small universal remote replaces 3 remotes. Has codes for most DVD players, TVs and VCRs. Controls one VCR or one DVD player, your TV, and your cable box. Operates on 2 AAA batteries (not included). Small size (only 5 1/2" L x 2" W). Brand new in sealed retail package.

**G13485 \$7.99 ea.**



# Resistors

## Power Resistors

Prime power resistors. We have several different package styles. Made by various manufacturers such as Dale, TRW, Ward Leonard, etc. Select values from table below.



Stock#	Value	Watts	Fig.	Price
<b>G6175</b>	5.6Ω	5W	<b>A</b>	<b>4/\$1.00</b>
<b>G6176</b>	6.8Ω	5W	<b>A</b>	<b>4/\$1.00</b>
<b>G6182</b>	750Ω	10W	<b>B</b>	<b>3/\$1.00</b>
<b>G3673</b>	3.1K	10W	<b>B</b>	<b>3/\$1.00</b>

## Ultra Precision 0.1% Super High Value Resistors

These special high ohm precision resistors have a tolerance of 0.1% (not 1% but 0.1%). They can be used to calibrate equipment or make precision voltage dividers and are used in making high voltage oscilloscope Probes. We have the following values. Each is prime and marked. Made by EBG, Hy-Meg, Vishay, etc., and each is worth many times our price. Hurry every time we have 0.1% resistors they sell quickly. Size of body .52" L x .13" Dia. (excluding leads).



Value	Stock#	Price
<b>11 Megohm</b>	<b>G13447</b>	<b>2/\$1.00</b>
<b>99 Megohm</b>	<b>G13448</b>	<b>2/\$1.10</b>
<b>100 Megohm</b>	<b>G13449</b>	<b>2/\$1.25</b>

## 1/4 Watt Carbon Resistors

Prime color coded 1/4W carbon resistors. Select values from table at right (no mixing). Order by stock number.



Value		Stock#		100/\$3.50 Quantities of any one value (no mixing)											
1.0Ω	<b>G412R</b>	27Ω	<b>G425R</b>	180Ω	<b>G438R</b>	620Ω	<b>G451R</b>	3.9K	<b>G464R</b>	12K	<b>G477R</b>	51K	<b>G490R</b>	220K	<b>G503R</b>
2.7Ω	<b>G413R</b>	33Ω	<b>G426R</b>	200Ω	<b>G439R</b>	680Ω	<b>G452R</b>	4.3K	<b>G465R</b>	15K	<b>G478R</b>	56K	<b>G491R</b>	240K	<b>G504R</b>
3.9Ω	<b>G414R</b>	36Ω	<b>G427R</b>	220Ω	<b>G440R</b>	750Ω	<b>G453R</b>	5.1K	<b>G466R</b>	16K	<b>G479R</b>	62K	<b>G492R</b>	270K	<b>G505R</b>
4.7Ω	<b>G415R</b>	39Ω	<b>G428R</b>	240Ω	<b>G441R</b>	820Ω	<b>G454R</b>	5.6K	<b>G467R</b>	18K	<b>G480R</b>	68K	<b>G493R</b>	300K	<b>G506R</b>
5.1Ω	<b>G416R</b>	47Ω	<b>G429R</b>	270Ω	<b>G442R</b>	1.0K	<b>G455R</b>	6.2K	<b>G468R</b>	20K	<b>G481R</b>	75K	<b>G494R</b>	330K	<b>G507R</b>
5.6Ω	<b>G417R</b>	51Ω	<b>G430R</b>	300Ω	<b>G443R</b>	1.5K	<b>G456R</b>	7.2K	<b>G469R</b>	22K	<b>G482R</b>	82K	<b>G495R</b>	390K	<b>G508R</b>
10Ω	<b>G418R</b>	68Ω	<b>G431R</b>	330Ω	<b>G444R</b>	1.6K	<b>G457R</b>	7.5K	<b>G470R</b>	24K	<b>G483R</b>	91K	<b>G496R</b>	470K	<b>G509R</b>
11Ω	<b>G419R</b>	82Ω	<b>G432R</b>	360Ω	<b>G445R</b>	1.8K	<b>G458R</b>	7.8K	<b>G471R</b>	30K	<b>G484R</b>	100K	<b>G497R</b>	510K	<b>G510R</b>
12Ω	<b>G420R</b>	100Ω	<b>G433R</b>	390Ω	<b>G446R</b>	2.0K	<b>G459R</b>	8.2K	<b>G472R</b>	33K	<b>G485R</b>	110K	<b>G498R</b>	560K	<b>G511R</b>
15Ω	<b>G421R</b>	120Ω	<b>G434R</b>	430Ω	<b>G447R</b>	2.2K	<b>G460R</b>	8.8K	<b>G473R</b>	36K	<b>G486R</b>	120K	<b>G499R</b>	620K	<b>G512R</b>
16Ω	<b>G422R</b>	130Ω	<b>G435R</b>	470Ω	<b>G448R</b>	2.4K	<b>G461R</b>	9.1K	<b>G474R</b>	39K	<b>G487R</b>	160K	<b>G500R</b>	680K	<b>G513R</b>
22Ω	<b>G423R</b>	150Ω	<b>G436R</b>	510Ω	<b>G449R</b>	2.7K	<b>G462R</b>	10K	<b>G475R</b>	43K	<b>G488R</b>	180K	<b>G501R</b>	750K	<b>G514R</b>
24Ω	<b>G424R</b>	160Ω	<b>G437R</b>	560Ω	<b>G450R</b>	3.3K	<b>G463R</b>	11K	<b>G476R</b>	47K	<b>G489R</b>	200K	<b>G502R</b>	820K	<b>G515R</b>

## High Voltage Multi-Tap 16 Meg Resistor

Blue epoxy case resistor for high voltage applications features a tap every 2 meg so it has 9 leads total. Great for lasers, geigers, x-rays and other high voltage applications. Size (excluding leads) 0.97" L x 0.49" T x 0.07" thick.

**G14242 \$1.75 ea.**



## High Voltage Center Tap Resistor

Blue epoxy case resistor features a 20 Meg ohm 5% value with a tap at 10 Meg Ω. Size (excluding leads) about 0.97" L x 0.35" H x 0.08" thick. These can handle voltages in the kV range, so they are great for geiger counters, lasers, X-rays, etc. New with full length leads.

**G14219 \$1.49 ea.**



## Chip Resistors

Tiny SMD resistor. Order by stock number. All case sizes are "1206" unless noted by a symbol (see at right).



† = 0805  
CASE SIZE: Δ = 1210  
∂ = 1812

Value		Stock#		Your Choice Of Any One Value (No Mixing) 20/\$1.00											
0Ω	<b>G217R</b>	120Ω	<b>G235R</b>	680Ω	<b>G253R</b>	8.06K	<b>G271R</b>	27.4K	<b>G289R</b>	200K	<b>G307R</b>				
6.8Ω	<b>G218R</b>	130Ω	<b>G236R</b>	820Ω	<b>G254R</b>	8.2K	<b>G272R</b>	28K	<b>G290R</b>	240K	<b>G308R</b>				
10Ω	<b>G219R</b>	200Ω	<b>G237R</b>	1K	<b>G255R</b>	8.25K	<b>G273R</b>	30.1K	<b>G291R</b>	270K	<b>G309R</b>				
12Ω Δ	<b>G220R</b>	205Ω	<b>G238R</b>	1.5K	<b>G256R</b>	9.31K	<b>G274R</b>	31.6K	<b>G292R</b>	300K	<b>G310R</b>				
15Ω	<b>G221R</b>	220Ω	<b>G239R</b>	1.74K	<b>G257R</b>	10K	<b>G275R</b>	33K	<b>G293R</b>	330K	<b>G311R</b>				
18Ω	<b>G222R</b>	240Ω	<b>G240R</b>	1.8K	<b>G258R</b>	10.2K	<b>G276R</b>	39K	<b>G294R</b>	357K	<b>G312R</b>				
27Ω †	<b>G223R</b>	243Ω	<b>G241R</b>	2.15K	<b>G259R</b>	11K	<b>G277R</b>	56K	<b>G295R</b>	390K	<b>G313R</b>				
30Ω	<b>G224R</b>	270Ω	<b>G242R</b>	2.2K	<b>G260R</b>	12K	<b>G278R</b>	59K	<b>G296R</b>	402K	<b>G314R</b>				
33Ω	<b>G225R</b>	300Ω ∂	<b>G243R</b>	2.4K	<b>G261R</b>	12.1K	<b>G279R</b>	61.9K	<b>G297R</b>	470K	<b>G315R</b>				
39Ω	<b>G226R</b>	330Ω	<b>G244R</b>	2.43K	<b>G262R</b>	15K	<b>G280R</b>	68K	<b>G298R</b>	511K	<b>G316R</b>				
43Ω †	<b>G227R</b>	360Ω ∂	<b>G245R</b>	2.87K	<b>G263R</b>	16K	<b>G281R</b>	82K	<b>G299R</b>	560K	<b>G317R</b>				
47Ω	<b>G228R</b>	390Ω	<b>G246R</b>	3.3K	<b>G264R</b>	16.5K	<b>G282R</b>	82.5K	<b>G300R</b>	562K	<b>G318R</b>				
51Ω	<b>G229R</b>	430Ω	<b>G247R</b>	4.3K †	<b>G265R</b>	18K †	<b>G283R</b>	86.6K	<b>G301R</b>	1Meg	<b>G319R</b>				
56Ω	<b>G230R</b>	470Ω	<b>G248R</b>	4.7K	<b>G266R</b>	18.2K	<b>G284R</b>	91K	<b>G302R</b>	2Meg	<b>G320R</b>				
62Ω	<b>G231R</b>	510Ω	<b>G249R</b>	5.1K	<b>G267R</b>	20K	<b>G285R</b>	110K	<b>G303R</b>	2.2Meg	<b>G321R</b>				
68Ω	<b>G232R</b>	560Ω	<b>G250R</b>	5.62K	<b>G268R</b>	22K	<b>G286R</b>	120K	<b>G304R</b>	3.3Meg	<b>G322R</b>				
82Ω	<b>G233R</b>	620Ω	<b>G251R</b>	6.8K	<b>G269R</b>	24K	<b>G287R</b>	162K	<b>G305R</b>	4.7Meg	<b>G323R</b>				
100Ω	<b>G234R</b>	649Ω	<b>G252R</b>	7.5K	<b>G270R</b>	27K	<b>G288R</b>	180K	<b>G306R</b>						



## 1.8Ω 2Watt Power Resistor Blowout

Small 1.8Ω 5% 2 watt power resistor has cut and formed 0.7" long leads. Unbelievable price! Prime fully marked.

**G14549 200/99¢**



## 0.5Ω 15Watt Power Resistor

Sandstone power resistor by Dale features full length axial leads and 10% tolerance. Dale part# CP-15-3. Blowout price.

**G14375 6/99¢**



## 1Ω 20Watt Power Resistor

Brand new fuseable link type power resistor is rated 1Ω, 20watts. Size about 2.5"L x 0.5"Sq. (excluding leads). Full length leads and fully marked. Blowout Price!

**G14510 10/99¢**



## 1.8KΩ 5W Power Resistor

Small sandstone resistor is rated 1.8KΩ 5W. Full radial leads as shown. Blowout price.

**G14568 10/\$1.49**



## 8Ω 5Watt Power Resistor

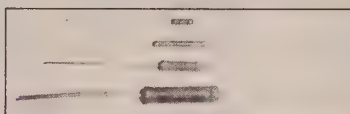
Sandstone power resistor with leads cut and formed for PC mounting. Rated 8Ω 10% 5W.

**G14383 5/\$1.00**



## CADDOCK Special High Voltage Resistors

Special high voltage resistors made for the government. These are all 1% tolerance and individually packaged with their part # and value labeled. Each has full length axial leads. Caddock types represented are M650 to MG721. These are worth many times our price! Prime-New!



Ωs	Volts	Watts	Stock#	Price
5.11KΩ	1KV	1Watt	<b>G2034</b>	\$1.50
100KΩ	1KV	.6Watt	<b>G2037</b>	\$1.50
174KΩ	1KV	.6Watt	<b>G2038</b>	\$1.50
191KΩ	1KV	.6Watt	<b>G2039</b>	\$1.50
909KΩ	2KV	.8Watt	<b>G2043</b>	\$1.75
1.74MΩ	2KV	.8Watt	<b>G2044</b>	\$1.75
2.5MΩ	2KV	.8Watt	<b>G2045</b>	\$1.75
3.0MΩ	2KV	.8Watt	<b>G2046</b>	\$1.75
3.74MΩ	2KV	.8Watt	<b>G2047</b>	\$1.75
4.53MΩ	2KV	.8Watt	<b>G2048</b>	\$1.75
5.49MΩ	2KV	.8Watt	<b>G2049</b>	\$1.75
6.34MΩ	2KV	.8Watt	<b>G2050</b>	\$1.75
6.49MΩ	4KV	1Watt	<b>G2051</b>	\$2.00
7.32MΩ	2KV	.8Watt	<b>G2052</b>	\$1.75
8.06MΩ	4KV	1Watt	<b>G2053</b>	\$2.00
11.3MΩ	2KV	.8Watt	<b>G2056</b>	\$1.75
14.6MΩ	2KV	.8Watt	<b>G2057</b>	\$1.75

## 18Ω 5Watt 2% Power Resistor

Precision 2% 5 watt 18Ω power resistor by Memcor.

The body length is 23mm x 7mm (dia). With long axial leads. Blowout price!

**G4385 5/\$1.00**



## 120Ω 2Watt Power Resistor

Molded 2 watt power resistor features 0.65"L formed leads. Prime marked power resistor at a blowout price!

**G14511 200/\$1.99**



## 125Ω 160W Large Power Resistors

Prime ceramic type large wirewound power resistors made by Memcor, Dale, TRW, etc. All have solder terminals.

**G6717 \$4.50 ea.**



## 120Ω 3Watt Power Resistor

Ceramic case molded power resistor with 0.75"L formed leads. This color coded resistor is rated 120Ω, 5% tolerance, 3 watts. Special blowout price (less than 2¢ each).

**G14509 50/99¢**



## Resistor Assortments

### Component Kits

Here's a great way to have the correct resistor on hand for a project or repair. Each kit features a label with components shown and 24 compartments containing 10 each of the listed resistor values (240 pieces total). The handy 10 1/2" x 5 7/8" x 15/16" tall cabinet features a 24 compartment pull out drawer and comes with a set of tweezers to use in component removal. Cabinets stack and interlock on each other (if you buy more than 1). Brand new. Made by Tech America.



**G14230** - 1/8 watt carbon film 5%  
10 each: 2.2ohm, 3.3ohm, 4.7ohm, 10ohm, 22ohm, 33ohm, 47ohm, 68ohm, 82ohm, 100ohm, 120ohm, 150ohm, 220ohm, 270ohm, 330ohm, 390ohm, 470ohm, 680ohm, 1K, 1.5K, 1.8K, 2K, 2.2K, and 2.7K **\$9.95**

**G14231** - 1/8 watt carbon film 5%  
10 each: 3.3K, 4.7K, 5.1K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 22K, 27K, 33K, 47K, 68K, 82K, 100K, 220K, 330K, 470K, 680K, 1M, 2.2M, 4.7M and 10Meg **\$9.95**

**G14232** - 1/8 watt metal film 1%  
10 each: 2.2ohm, 3.3ohm, 4.7ohm, 10ohm, 22ohm, 33ohm, 47ohm, 68ohm, 82ohm, 100ohm, 120ohm, 150ohm, 220ohm, 270ohm, 330ohm, 390ohm, 470ohm, 680ohm, 1K, 1.5K, 1.8K, 2K, 2.2K, and 2.7K **\$12.95**

**G14233** - 1/8 watt metal film 1%  
10 each: 3.3K, 4.7K, 5.1K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 22K, 27K, 33K, 47K, 68K, 82K, 100K, 220K, 330K, 470K, 680K, 1M, 2.2M, 4.7M and 10Meg **\$12.95**

**G14234** - 1/4 watt carbon film 5%  
10 each: 2.2ohm, 2.7ohm, 3.3ohm, 3.9ohm, 4.7ohm, 5.6ohm, 6.8ohm, 8.2ohm, 10ohm, 15ohm, 22ohm, 27ohm, 33ohm, 39ohm, 47ohm, 51ohm, 68ohm, 82ohm, 100ohm, 150ohm, 220ohm, 270ohm, 330ohm and 390ohm **\$10.95**

**G14235** - 1/4 watt carbon film 5%  
10 each: 470ohm, 560ohm, 680ohm, 820ohm, 1K, 1.2K, 1.5K, 1.8K, 2K, 2.2K, 2.7K, 3.3K, 3.9K, 4.7K, 5.1K, 5.6K, 6.8K, 8.23K, 10K, 15K, 22K, 27K, 33K and 39K **\$10.95**

**G14236** - 1/4 watt carbon film 5%  
10 each: 47K, 56K, 68K, 82K, 100K, 150K, 220K, 270K, 330K, 390K, 470K, 560K, 680K, 820K, 1M, 1.2M, 1.5M, 2.2M, 2.7M, 3.3M, 4.7M, 6.8M, 8.2M and 10Meg **\$10.95**

**G14238** - 1/2 watt carbon film 5%  
10 each: 470ohm, 560ohm, 680ohm, 820ohm, 1K, 1.2K, 1.5K, 1.8K, 2K, 2.2K, 2.7K, 3.3K, 3.9K, 4.7K, 5.1K, 5.6K, 6.8K, 8.23K, 10K, 15K, 22K, 27K, 33K and 39K **\$11.95**

**G14239** - 1 watt carbon film 5%  
10 each: 2.2ohm, 3.3ohm, 4.7ohm, 10ohm, 22ohm, 33ohm, 47ohm, 68ohm, 82ohm, 100ohm, 120ohm, 150ohm, 220ohm, 270ohm, 330ohm, 390ohm, 470ohm, 680ohm, 1K, 1.5K, 1.8K, 2K, 2.2K, and 2.7K **\$15.95**

**G14240** - 1 watt carbon film 5%  
10 each: 3.3K, 4.7K, 5.1K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 22K, 33K, 47K, 68K, 82K, 100K, 220K, 330K, 470K, 680K, 1M, 2.2M, 4.7M and 10Meg **\$15.95**

### Box of Precision Resistors

Here is a super way to stock up on various precision resistors. You get a 7" x 5" x 5" cardboard box full of quality 1% precision resistors. Contains at least 1,000 pieces of color coded or value marked precision resistors. Some PC leads, some tape and reel, and some bulk packed. You will find 1/8Watt to 1/2Watt types. Tremendous value!!

**G3436 \$18.00**



### Box of Resistors

Large 7" x 5" x 5" cardboard box full of all types of resistors. You'll find precision, carbon comp, carbon film, power, 1/4W, 1/2W and 1/8W types. Some are bulk, some are taped together. Some may be PC leads. Minimum 1,000 pcs. in each box. Here's a GREAT way to stock up!

**G3006 \$10.00**







# ROBOT BUILDER ITEMS!



Visit Our New Online Robot Section at: [www.goldmine-elec.com](http://www.goldmine-elec.com)

## Miniature Roller Chain

Metal #25 roller chain with master link makes a 23" long chain. Works with all sprockets listed below. Great for making super powerful type robots. Brand new!

**G13605 \$2.49 ea.**

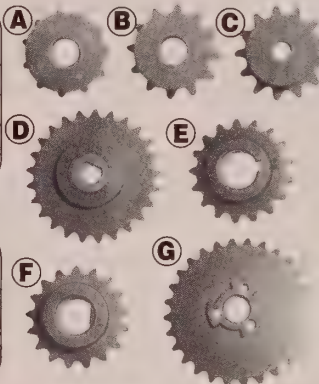


Glass-reinforced Nylon 1/4" Pitch Sprockets for use with above roller chain. Most of these sprockets were designed to press onto shafts, however you can drill and tapp to install set screws if you wish.

Fig.	Tooth	Approx. Outer Dia.	Bore	Stock #	Price
<b>A</b>	11	1"	5/16"	<b>G13606</b>	<b>\$1.00 ea.</b>
<b>B</b>	12	1.1"	5/16"	<b>G13607</b>	<b>\$1.00 ea.</b>
<b>C</b>	13	1.17"	1/4"	<b>G13608</b>	<b>\$1.25 ea.</b>
<b>D</b>	25	2.1"	5/16" "D"	<b>G13609</b>	<b>\$1.50 ea.</b>

## Metal Types for Above Chain

Fig.	Tooth	Approx. Outer Dia.	Bore	Stock #	Price
<b>E</b>	17	1.48"	1/2" (slotted)	<b>G13610</b>	<b>\$1.50 ea.</b>
<b>F</b>	17	1.48"	1/2" "D"	<b>G13611</b>	<b>\$1.50 ea.</b>
<b>G</b>	28	2.37"	3/8"	<b>G13612</b>	<b>\$2.00 ea.</b>



## Create Powerful Mechanical Motion by using the following Air Cylinders!

### 4" Bimba Pneumatic Air Cylinder (Used)

Type 53E743 air cylinder by Bimba requires only 15 to 20 psi of air to activate. Has .5" bore, .75" stroke and .25" threaded rod. Double action with 5/8" dia. threaded mounting bushing. Body diameter is .86". Used – good operating condition.

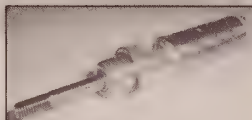
**G13617 \$3.95 ea.**



### 3.42" Bimba Pneumatic Air Cylinder (Used)

Type 53E712 air cylinder by Bimba requires only 15 to 20 psi of air to activate. Has .5" bore, .95" stroke and .25" threaded rod. Double action with 5/8" dia. threaded mounting bushing. Body diameter is .86". Used – good operating condition.

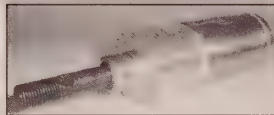
**G13616 \$3.95 ea.**



### 3.88" Bimba Pneumatic Air Cylinder (Used)

Type 53E732 air cylinder by Bimba requires only 15 to 20 psi to operate and features a single action with a spring return out. Has .75" bore, .75" stroke and a 7/16" threaded rod. Features a threaded 3/4" bushing for mounting. Body diameter is 1.58". Used – good operating condition.

**G13615 \$3.95 ea.**



### 3.17" Bimba Pneumatic Air Cylinder (Used)

Type 53E582 air cylinder features a spring return retract and a .75" bore, .75" stroke single action 7/16" dia. threaded rod. Has threaded 3/4" bushing for mounting. Requires 15 to 20 psi to operate. Body diameter is 1.58". Used – good operating condition.

**G13614 \$3.95 ea.**



### 1.08" Dia. Magnetic Wheel with Shaft and Bearing

This is similar to the 1.1" magnetic wheel we sell, however this one has a 1" Tall .08" shaft attached and a .2" Dia. bearing that is removable. Again the magnet is very strong. The magnet is attached to a non magnetic metal base so the force of the magnet is directed upwards where the shaft is. Very precision made. This one has no optical encoder pattern. Looks like a great item for experimentation or Robotics. Wheel and bearing only.

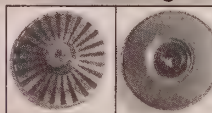
**G13636 \$2.99 ea.**



### 1.1" Dia. Magnetic Wheel with Bearing

This was made to form a basis for a special servo drive motor. Underneath this wheel, coils would be energized to turn it at a precise speed. Has optical encoding pattern made up of chrome like segments on top. Magnet is very strong for its size. Overall diameter of magnet is about 1". Thickness of wheel and magnet is about .12". Has internal bearing to allow it to rotate on .08" Dia. shaft. Magnetic wheel and bearing only – no coils or other items.

**G13638 \$2.49 ea.**



### 20 Tooth Plastic Gear

Small 20 Tooth gear has metal bushing and strong plastic teeth. Overall OD is about .84" and ID is about .32". Width of gear is about .24".

**G13651 \$1.00 ea.**



### Small 9/16" OD Drive Gear

Small 12 Tooth drive gear has a "D" shaped 3/16" dia. internal hole and is made out of very strong plastic. Overall outer dia. is .55" and width of gear is about .6" Tall.

**G13650 \$1.00 ea.**



## See Additional Motors on Page 62

### Mabuchi RC-260RA 4.5 to 6VDC Motor

Great little motor for use in robot applications features 9800 RPM at 4.5V unloaded. At maximum efficiency the RPM is 7750 current is .53amp and torque is 15.1g-cm. Stall current is 2amp with torque of 72g-cm. Size of body is 1.2" L x .93" Dia. Shaft is .28" L x .075" Dia. Brand new with solder eyelets.

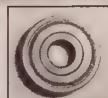
**G13619 \$1.29 ea.**



### Small Bearing

Small bearing is 5/8" Dia. OD and 7/32" ID. Smooth and high quality made from stainless steel. Brand new.

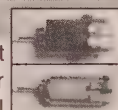
**G1558 \$1.49 ea.**



### Micro Motor

Tiny pager type motor without the weight is perfect for making tiny Beam robots, or spinning tiny propellers on miniature model plane. These do not have the weight on the shaft so they are much more useful. Operates from 1V up to 5VDC. Our picture shows the motor with and without the protective rubber boot (just cut it off with a knife or razor blade if you wish). Brand new with 2 metal solder connection tabs. Size of body about .45" L x .19" Dia. Shaft is about .15" L x .025" Dia.

**G13625 \$1.49 ea. • 10/\$12.00  
100/\$100.00 • 1000/\$750.00**



### Micro Size Bearing

Unique bearing features a 3mm dia. Axle which is 7.3mm long overall. The outer diameter of the rotating bearing is 6.3mm and the width of the rotating bearing is 2.7mm. This leaves about 4.3mm of the axle protruding which can be epoxied or pressed into a hole so that the bearing can be used to make smooth operating wheel mounts with built in axle for miniature robots. Precision made from stainless steel. Sold in sets of 4 only.

**G1939 \$3.00/Set of 4**



### Timing Belt & Pulleys Set

Consists of a 9 1/4" Long gates rubber timing belt and two matching plastic pulleys. One is about 7/8" Dia. with a 5/16" "D" bore and the other is 1 1/4" Dia. with a 1/4" "D" Bore. Handy setup for medium sized robots. Brand New.

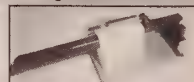
**G13776 \$2.49/Set**



### Mechanical/Electronic Interrupter

This is a 2.3"L x 1.1"W x 1"H assembly with metal base that has a Omron opto interrupter mounted. It also has a 3.8" L plastic probe that has a spring return. When the probe comes in contact with a hard surface, a flag is moved from between the slot of the opto interrupter so that a signal is produced that can control a LED, relay IC etc. Probe extends about 1.7" and can be pushed all the way in (except for the last .4"). Brand new – no specs. Great robot item.

**G13649 \$2.00 ea.  
10/\$8.00 • 100/\$75.00**

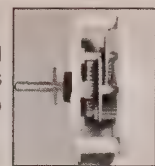




## Gear Head Assembly

Compact 29RPM plastic gear head assembly contains a good quantity of small gears inside a 1 3/4" Dia. x 3/4" open type plastic housing (excluding ears). On the top side is a .125" Dia. x 9/16" L shaft and on the bottom is a hole with gear that a motor with a gear (we don't have the motor) was to be attached. Made by Hanksraft. The gear head is new and it looks like it would be great for robotics, however we are selling them cheap because we do not have the motor or additional information.

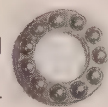
**G4518 \$2.95 ea.**



## Thrust Bearing

Consists of 11 steel ball bearings in a metal race. Each ball bearing is about 1/4" Dia. and the overall size of the race is about 1.27" in outer diameter. We have soldered metal posts to the race and attached the posts to the bottom of a circuit board to make a free wheelin' robot!

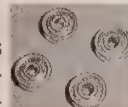
**G13613 \$1.00 ea. • 10/\$5.00**



## Miniature Bearing

Stainless steel miniature bearing looks like it would be great for making precision miniature robots. Overall outer diameter is 10 mm, width is 4 mm and inner diameter is for shafts about 3 mm in diameter. High Quality!

**G1840 \$3.98/Set of 4**



## Precision Ball Bearing Drive Coupler

Made for a motor drive application this unique item features an inner axle that rotates on ball bearings against an outer housing. The outer housing is 1.87" long and has 2 set screws. If these are tightened, the inner axle will not turn. The inner axle has a male .16" dia. stud on one end and a slotted threaded smaller socket on the other end that a bolt could be threaded into. New- Precision Made.

**G13463 \$2.49 ea.**



## Electromechanical Clutch 24VDC

This 1.4" Dia. electromechanical clutch features a large 28 tooth 1.17" Dia. x 0.28" thick gear that rotates freely until 24VDC is applied. When 24VDC is applied the gear is locked onto a 1/4" "D" bore which can attach to an axle or wheel, etc. Brand new.

**G13986 \$2.95 ea.**



## Plastic Gear Box

This gearbox consists of 4 plastic gears and was made for a printer. The approximate overall size of the gearbox is 2.5" x 1.02" x 1.32". We have no data but the small gears can be easily removed and used for robotics.

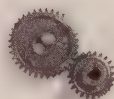
**G14566 99¢ ea.**



## Matching Gear Set

Set of 2 gears consists of a heavy duty plastic 1" diameter 24 tooth drive gear with 1/4" Dia. "D" bore and a 1 1/2" dia. matching gear with 36 teeth and 5/16" round bore. Great for heavy duty robotic applications. These are very nicely made (not like cheaper types).

**G13777 \$1.49/Set**



## Worm Gear Set

Set of 2 gears consists of a white plastic worm gear that is 0.52" in outer diameter and has a 0.1" "D" type inner bore (2.5mm). The matching gear that comes with it is a 0.81" outer diameter black plastic gear with a 0.239" "D" type inner bore (6mm). Great for robotic application - matched set of 2 gears which at right angles to effect the drive.

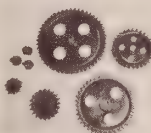
**G14157 \$1.00/Set**



## Complete Set of 5 Gears

Very useful set of 5 matching gears made out of plastic. The smallest has 10 teeth and the largest has 50 teeth. The molded gears have .15" bores but can be reduced to .065" bores by using the inserts that come with the set. Set of 5 gears and 5 inserts.

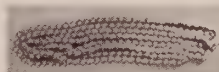
**G13618 \$2.00**



## 28" Long Miniature Roller Chain

Metal #25 roller chain makes a 28" long chain and works with all #25 sprockets. These are a complete loop and therefore have no master link. Brand new. Great for making larger robots.

**G13791 \$3.99 ea.**



## Heavy Duty Sprocket for #25 Roller Chain

Glass-reinforced nylon 1/4" pitch sprockets for large robot construction. These work with the #25 roller chain we sell (see above).



Fig.	Tooth	Outer Width	Bore	Stock#	Price
A	16	1.39"	0.61"	G13901	\$1.00
B	18	1.56"	0.61"	G13902	\$1.00
C	21	1.81"	0.36"	G13903	\$1.00
D	21	1.81"	0.36" "D"	G13904	\$1.25
E	14	1.24"	0.20"	G13905	\$1.50
F	14	1.24"	0.234" "D"	G13906	\$1.50
G	19	1.64"	0.31" "D"	G13907	\$1.75

## Giant Robot Wheels

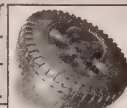
Great for making larger robots, these hollow plastic wheels feature a 0.3" internal diameter hole for your axle and an outer diameter as shown. Even though these plastic wheels are hollow, they can support a heavy load. New! Black color.

4 3/4" Dia. x 1 1/2" Thick

**G13885 \$1.49 ea.**

6" Dia. x 1 5/8" Thick

**G13889 \$1.79 ea.**



## Ball Bearing Swivel Coaster

Great for use in larger robots, this coaster features a hard black plastic 1.25" diameter wheel attached to a freely rotating ball bearing type 360° metal swivel plate which is 1 3/16" x 1 3/4" with 4 mounting holes. The dimension from the surface of the plate to the bottom of the coaster wheel is about 1 1/2". The width of the black wheel is about 1/2". Very smooth action makes a great omnidirectional wheel on a three wheel robot! New.

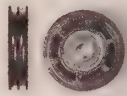
**G4600 \$1.29 ea.**



## Black Wheel/Pulley With Ball Bearing Bore

Plastic 1.72" Dia. x 0.39" Thick wheel features high quality bearing with 0.31" bore. Wheel/pulley features 2 slots for 2 drive belts or rubber bands. Great for making robot drives.

**G13908 \$2.00 ea.**



## Miniature Black Pulley for Most Motors

Here's the perfect solution for making a high torque drive for your robot. Push this small pulley with a 2mm (0.08") inner bore onto the shaft of the motor and then you can use a small rubber band to drive a larger wheel, thereby increasing the torque tremendously. This allows your robot to carry a much larger load and move much slower than it would with a direct wheel to motor shaft drive.

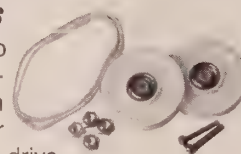
**G14416 \$1.00 ea.**



## Ball Bearing 1.62" Dia. Robot Drive Wheels

Set of two 1.62" outer diameter drive wheels, with two 4-40 0.86" bolts and nuts (the wheels don't need additional axles), rubber bands for driving the wheels from the motors. You can mount these wheels directly to your robot or "L" bracket. You'll also need 2 of the G14416 drive pulleys (see above) to use with the motors you select. We include a simple set of instructions that show how to make this high torque mechanical drive (you'll need to provide some sort of back wheel on your finished robot). NOTE: This is not a complete robot and no schematics, motors, L brackets, etc. are included. Only the 2 large drive pulleys that serve as front wheels, the bolts and nuts for them, the rubber bands and instructions on how to make a rubber band belt motor drive mechanism.

**G14400 \$7.99/Set**



## Pulley Belt and Gear Packaged "Used"

Perfect for use in large robots or machines. It consists of a brand new double sided type pulley belt that is about 41" in length and 3 used gears plus a used idler pulley. All match the "teeth" on the rubber pulley belt. Gear 1 is about 2.2" OD and has a .36" inside dia. "D" bore with set screw, gear 2 is about 1.3" OD with an internal bearing with a .31" dia. inside bore, gear 3 is about 1.2" OD and has 2 lip edges and a slotted inside .36" Dia. bore with set screw. The idler pulley is 1.4" OD and has an internal bearing with a .39" internal bore. All gears/pulleys are made out of metal and are used, however they were made to work perfectly with the new pulley belt supplied, and can be used inside or outside of belt (double type belt).

**G13689 \$10.00**



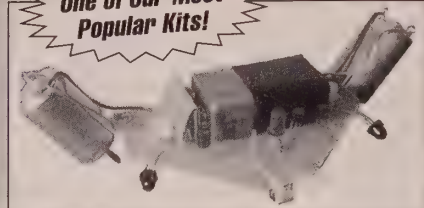


## Light Spider Robot Kit

This amazing new robot uses its electronic brain to follow or find a light source (such as a standard flashlight). Using its drive motors, the Light Spider will scoot across any smooth hard surface (such as a linoleum floor or a wooden table top) looking for light. While searching, a LED array on the front of the robot lights up and blinks. You will be amazed at the Light Spider's ability to follow light. Operates from one 9V battery (not included) and uses a transistor brain to control its 2 motors. The PC board and motors can be customized by painting them before assembly. Size of PC board is approximately 3.75" x 2.5". Skill Level 2.

**C6886 \$11.95 ea.**

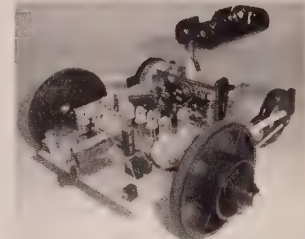
One of Our Most  
Popular Kits!



## IR Vision Rover Robot Kit

This incredible robot can actually see! As it explores, it emits invisible beams of IR (infrared) light which reflect off any obstacles in its path, including wall, rocks, humans, boxes, etc. Its simple brain and sensor causes the IR Vision Rover Robot to turn backwards and then go forward in a different direction avoiding the obstacle it has detected up to one foot away. It can even be remotely controlled from up to 25 feet away by using any standard VCR/TV IR remote control that you have. Simply point and press almost any button on your remote and you will notice that your IR Vision Rover Robot will immediately back up and then go forward in a different direction. The Rover emits beeps and blinks bright colorful LEDs as it explores. Operates from only two AA batteries (not included). Features DC-DC converter circuitry, sensitive IR sensor module, 2 IR LEDs, 9 colorful LEDs, 2 powerful motors and reliable drive train. This entertaining robot will amaze everyone who sees it! It's a fun kit to build, and an excellent introduction to robotics. Size about 5 1/2" x 6 1/2". Complete with all parts, PC board and instructions. Skill level 2.

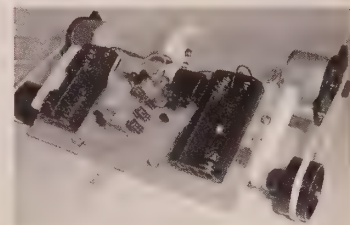
**C6761 \$46.99 ea.**



## Treasure Trakkor Robot Kit

This exciting and amazing new robot kit travels at super fast speeds looking everywhere for lost coins. As soon as the Treasure Trakkor detects a coin lying on the floor, it shuts off its high speed motors and sounds an electronic tone, plus it lights up 2 bright electronic LEDs to tell humans that it has detected money. Just hit the reset button and the Treasure Trakkor Robot starts exploring again. It uses a unique spring type vibration sensor that causes it to change direction whenever it hits an obstacle or wall. Operates on any hard smooth surface (gym floor, vinyl, concrete, marble, etc.). Features bright colorful blinking LEDs, 2 powerful motors, a dip switch to adjust turning times. Size of robot is about 8 1/2" x 4 1/2". Operates on four AA batteries (not included). Complete with all parts, PC board and instructions. Skill level 2.

**C6760 \$38.99 ea.**



## 34 In 1 Deluxe Exploration ROBOTICS LAB

This lab introduces you to the fundamentals of robotics technology while building 28 different robots in one. You start by building a simple robot, and then disassembling it to progress to building more complex designs which are remote controlled with IR (infrared) vision and object avoidance. This lab is totally REUSABLE and will stimulate your mind in robotic technology. Try it! You will love it!

### Lab Includes:

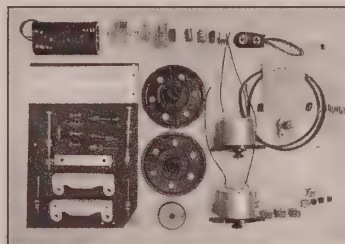
- High Quality Breadboard
- 3 Wheels, 2 Motors, 2 Belts, and Various Mechanical Parts
- Attractive Smoked Plexiglass Base
- All necessary Electronic Parts
- Fully Illustrated Instruction Manual

### Learn About:

Robot Motor Traction & Power System  
Robotic Motion  
Time Controlled Motion  
Remote Controlled Motion  
Robotic Vision (CDS & Infrared)  
Sound Detection & Control  
... and many more topics.

### Build the Following Robots:

Explorer I and II  
The Unstoppable  
The Independent Minded Robot  
The Night Runner  
The Day Runner  
The IR (eye) Robot  
Obedient I (Remote Controlled Robot)  
Obedient II (Remote Controlled Robot)  
Robot Pet  
Obstacle Avoiding Robot I  
Obstacle Avoiding Robot II  
Big Ears Robot  
The Music Dancer Robot  
... and many more.



**34 in 1  
Deluxe Exploration  
Robotics Lab  
C6762 \$89.00**

Check out the experiments in the 34 in 1. Each one is designed to progress in an easy-to-follow and logical manner. Each experiment explores both meaningful and interesting topics:

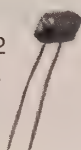
1- Lesson 1:	Introduction To Robotics
2- Inventory & Parts Identification	
3- Lesson 2:	The Chaney Robotics Lab
4- Experiment 1:	Assembling & Testing the Robot Motor Traction System
5- Experiment 2:	Assembling the Robot Base & Power System
6- Experiment 3:	Assembling & Testing the Relay Control Board
7- Experiment 4:	Robot Forward Motion
8- Experiment 5:	Robot Backward Motion
9- Experiment 6:	Robot Forward Right Turn
10- Experiment 7:	Robot Backward Right Turn
11- Experiment 8:	Robot Hard Right Turn
12- Experiment 9:	Robot Forward Left Turn
13- Experiment 10:	Robot Backward Left Turn
14- Experiment 11:	Robot Hard Left Turn
15- Experiment 12:	Time Controlled Motion I
16- Experiment 13:	Time Controlled Motion II
17- Experiment 14:	Time Controlled Hard Right Turn
18- Experiment 15:	Time Controlled Hard Left Turn
19- Experiment 16:	Explorer I Robot
20- Experiment 17:	Explorer II Robot
21- Experiment 18:	The Unstoppable Robot
22- Experiment 19:	The Independent Minded Robot
23- Experiment 20:	The Night Runner Robot
24- Experiment 21:	The Day Runner Robot
25- Experiment 22:	Infrared (IR) Vision
26- Experiment 23:	The IR-Eye Robot
27- Experiment 24:	Obedient I -IR Remote Controlled Robot
28- Experiment 25:	Obedient II- IR Remote Controlled Robot
29- Experiment 26:	Robot Pet
30- Experiment 27:	IR Obstacle Avoiding Robot I
31- Experiment 28:	IR Obstacle Avoiding Robot II
32- Experiment 29:	Sound Detection (Robot Ears)
33- Experiment 30:	Big Ears Robot
34- Experiment 31:	The Music-Dancer Robot



## FPT 5086 Tiny Photo Diode

Tiny photo diode has clear lens on top and 2 gold plated leads. Sorry, no specs available. Prime- Blowout price!

**G14442 4/99¢**



## R2MLF-A1 Overvoltage Protection Diode

Designed to clamp (breakdown) at 135-150V. Reverse current is 1 Amp. Case is DO-15 with cut and formed PC leads. Prime fully marked.

**G14514 Bag of 20 99¢**



## General Purpose Germanium Diode

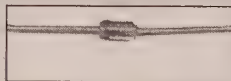
This type of glass diode was used in millions of crystal radios as the detector. It is similar to the popular 1N34 the 1N60 types. These have full length axial leads with cathode marking. Special Price.

**G14216 3/\$1.00**

## 1N4148 Small Signal Glass Diode

Very popular small glass diode with full length axial leads. These are prime, fully marked units on tape and reel.

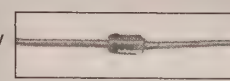
**G13808 100/\$1.00**



## 1N914 Small Signal Glass Diode

Popular small signal glass diode. These are prime, fully marked on tape and reel.

**G13807 100/\$1.00**



## Handy 1AMP Rectifier Assortment

You get 2 each of 1N4001, 1N4002, 1N4003, 1N4004, 1N4005 and 1N4007. (50V, 100V, 200V, 400V, 600V, and 1000V) all marked and with full length leads. Each package has two of each value (12 diodes total).

**G4052 \$1.00**



## 1N5401 50V 3Amp Rectifier

Popular 50V, 3Amp rectifier on tape & reel. Prime, fully marked, full length leads.

**G13865 8/\$1.00**



## 1N5404G 400V 3Amp Rectifier

Brand new full length leads rectifier is marked 1N5404G. Prime on tape & reel.

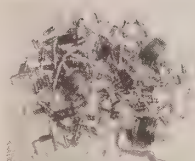
**G13587 5/\$1.00**



## PC Lead Diodes

Various types and sizes of prime diodes. You'll find zeners, heavy duty rectifiers and small signal diodes. All with cut and formed PC leads.

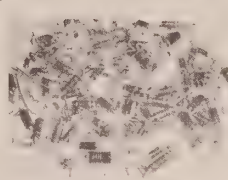
**G5077 50/\$1.00**



## Super Diode Assortment

Assortment containing over 200 pcs of prime diodes including small signal glass types, rectifiers, zeners, etc. Most are house numbered and many have had their leads cut and formed for PC board mounting. All are 100% prime brand new-not rejects!

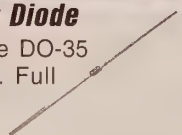
**G4006 Bag of Over 200 Diodes \$2.00**



## 1N752A Tiny 8.2V .5W Zener Diode

Tiny 1N752A Zener diode is in the DO-35 glass case. Rated 8.2V .5Watts. Full length leads.

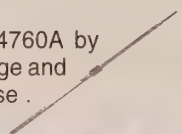
**G15248 20/\$1.00**



## 1N4760A 68V Zener Diode

High quality Zener diode type 1N4760A by Motorola features a 68V Zener voltage and a 1Watt rating. Standard D0-416 case.

**G15329 4/\$1.00**



## Zener Assortment

Great assortment of 10 various zener diodes.

**G5394 \$2.00**



## 1N4760A 68V 1Watt Zener Diode

Prime high voltage zener is fully marked with long leads on tape and reel.

**G13647 5/\$1.00**



## Rectifier Diodes

### Varied Voltage Rectifier Diodes

Prime- Each has full length leads.

Model#	Volts	Amps	Stock#	Price
1N4001	50V	1A	G1301	25/1.00
1N4002	100V	1A	G9345	20/1.00
1N4003	200V	1A	G9346	18/1.00
1N4004	400V	1A	G9347	15/1.00
1N4005	600V	1A	G9348	10/1.00
1N4007	1000V	1A	G9349	5/1.00
1N5400	50V	3A	G1024	8/1.00
1N5406	600V	3A	G9834	4/1.00

### 1SS98 UHF Diode

Small glass diode used in many shortwave radio projects. This UHF diode is prime, color coded with long leads.

**G13004 5/\$1.00**

## Zener Diodes

### Low Voltage Zener Diodes

Prime fully marked Zener diodes rated .5Watt. Each has full length leads.

Model#	Volts	Stock#	Price
1N5225B	3.0V	G13454	10/\$1.00
1N5227B	3.6V	G13476	10/\$1.00
1N5231B	5.1V	G13459	10/\$1.00

S

## Bridge Rectifier Sale

These are prime standard part numbered bridge rectifiers from an electronic distributor which closed. All have full length leads or terminal lugs. Standard full-wave (4 lead) types.



Current	Voltage	MFG#	FIG.	Stock#	Price
1.5Amp	600V	AL156	1	G14517	4/\$1.00
1.5Amp	800V	AL158	1	G14518	3/\$1.00
1.5Amp	1000V	AL1510	1	G14519	2/\$1.00
4Amp	200V	KBU4D	2	G14520	\$0.79
4Amp	300V	KBU4036	2	G14521	\$0.85
4Amp	400V	KBU4G	2	G14522	\$0.89
4Amp	600V	KBU4J	2	G14523	\$0.95
4Amp	800V	KBU4K	2	G14524	\$1.00
6Amp	100V	CP601	3	G14525	\$0.75
6Amp	200V	CP602	3	G14526	\$0.83
6Amp	400V	CP604	3	G14527	\$0.93
6Amp	600V	CP606	3	G14528	\$1.00
6Amp	800V	CP608	3	G14529	\$1.10
8Amp	50V	CP800	4	G14530	\$0.65
8Amp	200V	CP802	4	G14531	\$0.90

Current	Voltage	MFG#	FIG.	Stock#	Price
8Amp	400V	CP804	4	G14532	\$1.00
8Amp	600V	CP806	4	G14533	\$1.25
8Amp	800V	CP808	4	G14534	\$1.40
15Amp	200V	CM1502	5	G14535	\$1.75
15Amp	400V	GBPC1504	6	G14536	\$1.95
15Amp	800V	CP1508	6	G14537	\$2.15

## 100V 4Amp Inline Bridge Rectifier

Type KBU401 bridge rectifier is rated 100VAC 4Amp. Size is .9" (L) x .26" (W) x .79" (H).

**G12991 2/\$1.00**



## Bridge Rectifier Diodes

MFG#	Type	Current	Voltage	Stock#	Price
WL06	TO5P	1.5A	600V	G1113	\$1.00
S1WB	4Pin Mini Dip	1.0A	50V	G4446	4/\$1.00
BR805D	Inline Plastic	2.0A	50V	G4054	4/\$1.00
FPIL60	1.12" Square	40A	600V	G4589	\$2.49



## Bridge Rectifiers

### 4 Amp 100V Bridge Rectifier

Inline bridge rectifier is only 0.58"L x 0.19"W x 0.45" Tall. Prime, fully marked.

**G13996 2/\$1.00**



### KBLO05 50V 4Amp Bridge Rectifier

In-line bridge rectifier made by General Instruments is rated 50V at 4Amps. Has 4 long leads.

**G13450 2/\$1.00**



### WL02 100V 1.5Amp Bridge Rectifier

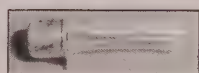
Mini plastic case bridge rectifier is about the size of a T05 transistor. Rated 1.5Amp at 100V. Prime long lead units.

**G12976 2/\$1.00**





## 2N, MPS, & PN Series Transistors



**M = Metal**



**P = Plastic**

### 2N TRANSISTORS

2N706	T018M	G43102	\$0.68
2N708	T018M	G43103	\$0.25
2N720	T018M	G43105	\$0.35
2N956	T018M	G43113	\$2.20
2N2219A	T039M	G14961	\$0.52
2N2222A	T018M	G43124	\$0.25
2N2369	T018M	G43125	\$0.50
2N2484	T018M	G14962	\$0.54
2N2711	T092P	G14963	\$0.48
2N2857	T072M	G14964	\$1.75
2N2907A	T018M	G43129	\$0.25
2N3013	T018M	G43130	\$0.25
2N3251	T018M	G43138	\$0.39
2N3391	T092P	G14965	\$0.30
2N3414	T092P	G43139	\$0.20
2N3415	T092P	G43372	\$0.12
2N3417	T092P	G14966	\$0.16
2N3440	T039M	G14967	\$0.59
2N3468	T05M	G43141	\$1.80
2N3501	T05M	G43142	\$1.80
2N3511	T018M	G43143	\$1.39
2N3564	T018M	G43146	\$0.65
2N3638	T0105P	G14968	\$0.48
2N3640	T092P	G43149	\$0.20
2N3702	T092P	G43373	\$0.12
2N3772	T03M	G43150	\$1.00
2N3820	T092P	G14969	\$0.14
2N3865	T05M	G43152	\$1.00
2N3866	T039M	G14970	\$1.30
2N3903	T092P	G43153	\$0.12
2N3904	T092P	G43154	\$0.12
2N3905	T092P	G43374	\$0.12
2N3906	T092P	G43155	\$0.12
2N4062	T092P	G43157	\$0.12

2N4124	T092P	G43158	\$0.12
2N4125	T092P	G43159	\$0.12
2N4126	T092P	G43160	\$0.12
2N4338	T018M	G14971	\$0.50
2N4393	T018M	G14972	\$1.05
2N4400	T092P	G43375	\$0.12
2N4401	T092P	G43161	\$0.12
2N4402	T092P	G43376	\$0.12
2N4403	T092P	G43162	\$0.12
2N4410	T092P	G43377	\$0.15
2N4861	T018M	G14973	\$0.50
2N4957	T072M	G14974	\$1.00
2N5087	T092P	G43168	\$0.18
2N5088	T092P	G43169	\$0.18
2N5116	T018M	G14975	\$1.50
2N5133	T0105P	G14976	\$0.50
2N5142	T0105P	G14977	\$0.50
2N5208	T092P	G43170	\$0.12
2N5210	T092P	G43171	\$0.12
2N5222	T092P	G43172	\$0.12
2N5228	T092P	G43378	\$0.13
2N5245	T092P	G14978	\$0.50
2N5320	T05M	G14307	\$1.00
2N5354	T092P	G14979	\$0.50
2N5401	T092P	G43174	\$0.12
2N5550	T092P	G43379	\$0.15
2N5551	T092P	G43176	\$0.12
2N5638	T092P	G43381	\$0.40
2N5769	T092P	G43178	\$0.12
2N5770	T092P	G43382	\$0.18
2N5771	T092P	G43179	\$0.12
2N5772	T092P	G14980	\$0.30
2N6028	T092P	G43383	\$0.25
2N6039	T0126P	G43182	\$1.00
2N6072	T0126P	G43184	\$1.00
2N6073	T0126P	G43185	\$1.00
2N6426	T092P	G43384	\$0.25
2N6517	T092P	G43187	\$0.25
2N6520	T092P	G43188	\$0.25
2N6718	T0237P	G43190	\$0.39
2N6725	T0237P	G14220	\$0.33

2N6726	T0237P	G43191	\$0.50
2N6727	T092P	G43385	\$0.30
2N6730	T092P	G43386	\$0.25
2N7000	T092P	G43192	\$0.18
2N9114	T018M	G43193	\$1.00

### MPS TRANSISTORS

MPSL01	T092P	G14981	\$0.50
MPSH04	T092P	G43195	\$0.25
MPSA05	T092P	G43196	\$0.25
MPSD05	T092P	G43197	\$0.26
MPSA06	T092P	G43198	\$0.12
MPSH10	T092P	G14983	\$0.25
MPSH17	T092P	G43199	\$0.17
MPSA13	T092P	G14984	\$0.25
MPSA14	T092P	G14985	\$0.25
MPSA18	T092P	G43200	\$0.20
MPSA20	T092P	G43201	\$0.20
MPSA27	T092P	G43203	\$0.12
MPSA28	T092P	G14986	\$0.30
MPSA42	T092P	G43204	\$0.33
MPSA43	T092P	G14987	\$0.45
MPSA44	T092P	G43205	\$0.33
MPSU52	102	G43206	\$0.50
MPSA55	T092P	G43208	\$0.25
MPSA56	T092P	G43209	\$0.25
MPSA63	T092P	G43210	\$0.12
MPSA64	T092P	G14988	\$0.30
MPSA65	T092P	G14989	\$0.30
MPSH69	T092P	G43211	\$0.25
MPSA70	T092P	G43212	\$0.12
MPSA75	T092P	G14990	\$0.30
MPSA92	T092P	G43214	\$0.25
MPSA94	T092P	G14991	\$0.30
MPSW06	T092P	G14982	\$0.25
MPSW92	T092P	G43215	\$0.35
MPSA93	T092P	G43216	\$0.25
MPS404	T092P	G14992	\$0.32
MPS650	T092P	G14993	\$0.55
MPS651	T092P	G14994	\$0.30
MPS750	T092P	G14390	\$0.12
MPS751	T092P	G43218	\$0.12

MPS2222A	T092P	G43220	\$0.15
MPS2369	T092P	G43221	\$0.18
MPS2907	T092P	G43222	\$0.18
MPS2925	T092P	G43224	\$0.16
MPS3403	T092P	G43225	\$0.22
MPS3638	T092P	G14995	\$0.30
MPS3640	T092P	G43227	\$0.38
MPS3646	T092P	G43229	\$0.25
MPS3906	T092P	G14996	\$0.30
MPS4250	T092P	G43230	\$0.25
MPS5161	T092P	G43231	\$0.25
MPS6516	T092P	G43235	\$0.27
MP6518	T092P	G43236	\$0.25
MPS6523	T092P	G43239	\$0.12
MPS6560	T092P	G14997	\$0.30
MPS6717	T092P	G43245	\$0.25

### PN TRANSISTORS

PN100	T092P	G43387	\$0.18
PN2219	T092P	G43389	\$0.28
PN2222	T092P	G43246	\$0.18
PN2222A	T092P	G43247	\$0.20
PN2907	T092P	G43248	\$0.18
PN3563	T092P	G43249	\$0.19
PN3568	T092P	G14998	\$0.25
PN3638	T092P	G43250	\$0.32
PN3644	T092P	G43251	\$0.30
PN3645	T092P	G43252	\$0.28
PN3646	T092P	G43253	\$0.28
PN4122	T092P	G14999	\$0.25
PN4220	T092P	G43391	\$0.20
PN4258	T092P	G43392	\$0.30
PN4303	T092P	G43393	\$0.30
PN4356	T092P	G43254	\$0.28
PN4391	T092P	G15000	\$0.25
PN5134	T092P	G43394	\$0.18



## Japanese Transistors

Part#	Case	Stock#	Price	2SC871	T0126	G43271	\$1.25	2SC2229	T0226	G15018	\$0.22	2SC2383	T0226	G43314	\$0.49
2SG317P	T0220P	G15001	\$0.50	2SB908	T0251AA	G43272	\$0.50	2SC2603	T092P	G15019	\$0.50	2SC2482	T0226	G43315	\$1.00
2SD29	T092P	G43255	\$0.25	2SC945	T092P	G43273	\$0.25	2SC3271	T0251AA	G15020	\$0.80	2SC2500	T0226	G43317	\$0.39
2SD325	T0220P	G15002	\$0.50	2SA949	T0226	G43274	\$0.39	2SD1138	T0220P	G43284	\$0.75	2SC2555	T03P	G43318	\$1.29
2SC458	T092P	G43257	\$0.65	2SA950	T092P	G43275	\$0.25	2SC1162	T0126	G43285	\$1.00	2SC2570	T092P	G43319	\$0.25
2SD468	T092P	G43258	\$1.85	2SC959	T039M	G15007	\$0.50	2SC1213	T092P	G43287	\$0.35	2SC2682	T0126	G43320	\$0.67
2SK553	T0220P	G43259	\$0.85	2SA999	T092P	G43277	\$0.25	2SK1221	T0220P	G43288	\$3.16	2SC3136	T092P	G43323	\$0.25
2SB562C	T0226	G43260	\$0.45	2SA1011	T0220P	G15008	\$1.20	2SD1286	T0251AA	G43292	\$0.75	2SC3148	T0220	G43324	\$2.06
2SD612K	T0126	G43261	\$0.43	2SC1000	SOT223	G43278	\$0.39	2SA1293	T0220P	G43293	\$1.25	2SC3271	T0126	G43328	\$1.25
2SB734	T0251AA	G15003	\$0.50	2SB1096	T0220P	G43282	\$1.50	2SC1583	5PSIP	G43296	\$0.75	2SC3568	T0220	G43330	\$1.25
2SD774	T0251AA	G15004	\$0.35	2SD1134	T0220P	G15009	\$1.80	2SC1730	T092P	G43297	\$0.55	2SC3675	T0220	G43331	\$1.15
2SK699	T0126P	G43263	\$1.25	2SA1232	T0247	G15010	\$2.90	2SC1855	T092P	G43299	\$0.25	2SC3688	T03P	G43332	\$6.30
2SC717	T092P	G43265	\$0.39	2SA1320	T092P	G15011	\$0.90	2SK1924	T0220P	G43301	\$1.75	2SC3955	T0126	G43334	\$0.92
2SA719	T092P	G43266	\$0.39	2SB1353	T0-251AA	G15012	\$0.75	2SC2026	T092P	G43302	\$0.85				
2SA733	T092P	G43268	\$0.40	2SC1473A	T092P	G15013	\$1.90	2SC2061	T0226	G43304	\$0.49				
2SC733	T092P	G43269	\$0.40	2SD1309	T0126	G15014	\$1.25	2SK2161	T0220P	G43308	\$1.63				
2SC838	T092P	G15005	\$0.50	2SD1878	T0247	G15015	\$2.50	2SC2236	T0226	G43311	\$1.05				
2SA844	T092P	G43270	\$0.35	2SD2033A	T0-251AA	G15016	\$0.75	2SK2299	T0220P	G43312	\$1.15				
2SB858	T0220P	G15006	\$1.20	2SD2133S	T0-251AA	G15017	\$0.75	2SC2320	T092P	G43313	\$0.35				

### 2SC2482 NPN Transistor

High voltage Japanese transistor is rated 300V collector to emitter voltage and 300V collector to base voltage. Power dissipation is 900mW. This transistor is in the TO-92MOD case ( a little larger than a regular TO-92) and has cut and formed leads.

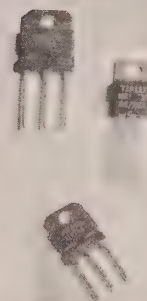
**G14667 10/99¢**





## TIP Series Power Transistors

Part#	Case	Stock#	Price	Part#	Case	Stock#	Price	Part#	Case	Stock#	Price	Part#	Case	Stock#	Price
TIP29	T0220	G43335	\$0.57	TIP32C	T0220	G43342	\$0.58	TIP42C	T0220	G43352	\$0.73	TIP117	T0220	G43362	\$0.62
TIP29A	T0220	G43336	\$0.57	TIP33A	T0218	G43343	\$1.24	TIP48	T0220	G43353	\$0.73	TIP120	T0220	G43363	\$0.60
TIP29B	T0220	G15022	\$0.55	TIP33C	T0218	G43344	\$1.26	TIP49	T0220	G43354	\$0.62	TIP121	T0220	G43364	\$0.60
TIP29C	T0220	G15023	\$0.55	TIP35	T0-218AC	G15027	\$1.10	TIP50	T0220	G43355	\$0.80	TIP122	T0220	G43365	\$0.62
TIP30	T0220	G43337	\$0.57	TIP35A	T0218	G43346	\$1.50	TIP100	T0220	G43356	\$0.66	TIP126	T0220	G43366	\$0.60
TIP30C	T0220	G15024	\$0.55	TIP36	T0-218AC	G15028	\$3.50	TIP102	T0220	G43357	\$0.70	TIP127	T0220	G43367	\$0.62
TIP31A	T0220	G15025	\$0.50	TIP36C	T0218	G43347	\$1.76	TIP105	T0220	G15030	\$0.75	TIP140	T0218	G43368	\$1.44
TIP31B	T0220	G43339	\$0.45	TIP41	T0220	G43349	\$0.69	TIP107	T0220	G43358	\$0.70	TIP146	T0218	G43369	\$1.46
TIP31C	T0220	G43340	\$0.58	TIP41A	T0220	G43350	\$0.71	TIP110	T0220	G43359	\$0.58	TIP147	T0218	G43370	\$1.50
TIP32	T0220	G15026	\$0.50	TIP41B	T0220	G15029	\$0.50	TIP111	T0220	G43360	\$0.62				
TIP32A	T0220	G43341	\$0.54	TIP41C	T0220	G43351	\$0.72	TIP115	T0220	G15031	\$0.50				



## High Power T03 Metal Case Transistors

Factory prime fully marked T03 case transistors by top names such as RCA, Motorola, TI, and Central. Check out our blowout pricing on these!

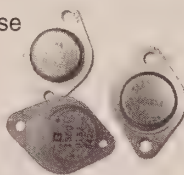
Part #	Figure	Stock #	Price
2N3771	A	G13298	\$1.00 ea.
2N6283	B	G13299	\$1.00 ea.
TIPL753A	C	G13300	\$1.00 ea.



## T03 Power Transistor Surprise

Assortment of three metal T03 case power transistors. These are brand new PNP and NPN power transistors that have a house # or are unreadable (rubbed off) number. They are 100% prime, however since they are nonstandard part numbers we are selling them cheap!

**G14817 3/99¢**



## 2N2906A T018 Metal Case PNP Transistor

Metal Case PNP switching transistor made by Motorola.

**G14208 4/\$1.00**



## 2N5038 NPN Silicon Power Transistor

Rated 140 watts with an  $h_{FE}$  of 20 to 100.  $I_C = 20$  amp max. and  $V_{CE0} = 90V$ . T03 metal case. Made by "ON".

**G14209 \$1.99 ea.**



## PNP High Voltage BF 470 Power Transistor

Plastic TO-126 case power transistor features a VCBO of 250V, a VCEO of 250V and a ICM of 100mA. Prime with full length leads. -Made by Philips.

**G14887 99¢ ea.**



## High Voltage NPN Horizontal Deflection Output Transistor

Type S2055N crosses over to the ST1803DHI, BU4506D, BU4508D, BU2508D and 25D1878 NPN power transistors. These transistors are specifically designed for use in the horizontal deflection output cathode ray tube circuits of TVs and monitors. ISOWATT 218 package.

**G4269 \$1.59 ea.**



## 2N6491 PNP Silicon Power Transistor

Standard T0-220AB case PNP power transistor is rated 15 amp, 80V and 75 watts. Prime full length leads.

**G14777 \$1.00 ea.**



## BD242B PNP 80V 3Amp Power Transistor

Prime fully marked T0-220 case power transistor by ST features full length leads and 80V 3Amp power rating.

**G13741 3/\$1.00**



## 2N5193 PNP Power Transistor

Power transistor in T0-126 case is a PNP 4Amp 40V part. Full length leads.

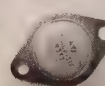
**G15258 99¢ ea.**



## Misc. Power Transistors

### T03 and T066 Case Sizes

Part#	Case	Stock#	Price
2N3584	T066	G13048	\$3.52
2N3740	T066	G13051	\$1.25
2N3772	T03	G13054	\$2.34
2N4232A	T066	G13057	\$1.50
2N6296	T03	G13073	\$1.29
2N6576	T03	G13076	\$2.49



## Motorola 2N3611 T03 Metal Case Power Transistor

Prime metal case power transistor in original sealed styrofoam box by Motorola.

**G14357 \$2.49 ea.**



## TN 3019A NPN General Purpose Amplifier Transistor

This T0-226 plastic case transistor is designed for general purpose amplifiers and switches with collector voltages up to 80V and collector currents up to 500mA. Full length leads. Made by Fairchild.

**G15201 5/\$1.00**



## RCA 3055

Plastic T0220 version of the popular 2N3055 NPN transistor. Prime marked unit at a great price

**G8745 2/\$1.00**



## MJE181 NPN Power Transistor

Complimentary silicon power transistor in the TO-225 plastic package. These are rated 3 amp @  $V_{CE0} = 60VDC$ . Full length leads formed as shown.

**G14765 \$1.00 ea.**



## NPN Power Darlington MJH6284

Darlington power Transistor by "ON" Semiconductor can handle 20 amps and 100 volts. Rated 160 watts. Designed for power amplifiers and low speed switching motor control applications. Case is 340D-02. Prime full length leads. Worth over \$2.40 each.

**G14747 \$1.00 ea.**



## 2N6420 T066 Metal Case PNP Power Transistor

High voltage metal T066 case power transistor is rated  $V_{CE0} = 175V$ ,  $I_C = 1Amp$  and power = 35Watt. Prime full length leads.

**G15331 \$1.49 ea.**



## Plastic Case Power Transistors

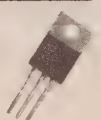
Type	Case	Stock#	Price
2N5190	T0220	G15035	\$1.50
2N5292	T0220	G15036	\$0.50
2N6039	T0126	G15037	\$0.50
2N6042	T0220	G15038	\$1.00
2N6043	T0220	G15039	\$0.80
2N6487	T0220	G15040	\$0.50
2N6553	T0220	G15041	\$0.50
BC337	T092	G15042	\$0.10
BD442	T0126	G15043	\$0.35
BU406	T0220	G15044	\$1.25
J112	T092	G15045	\$0.50
J176	T092	G15046	\$0.50
MJE171	T0220	G15047	\$0.65
MJE350	T0220	G15048	\$0.75
MJE700	T0220	G15049	\$0.50
MJE800	T1026	G15050	\$0.60
MJE3439	T0126	G15051	\$0.60
MJE13007	T0220	G15052	\$0.80
MJF6388	T0220	G15053	\$0.75
MPF960	T092	G15054	\$0.25
MPSU07	T0220*	G15055	\$0.75
MPSU57	T0220	G15056	\$1.50
NTE294	T092	G15057	\$1.50
X40D500	T0220	G15058	\$0.80

\*formed leads

## 2N6122 4Amp NPN Transistor

Prime T0-220 case power transistor made by Motorola. Rated 60V @ 40Watts.

**G13810 \$1.00 ea.**



## 2N6488 NPN 15 Amp Power Transistor

Silicon power transistor in the plastic 221A-09 case. Rated 80V. Made by ST.

**G14201 3/\$1.00**

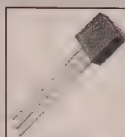




## J210 N-Channel JFET

High performance JFET for high speed switching features drain and source interchangeability high impedance allows for analog switches, choppers, multiplexes and audio amplifiers. Plastic TO92 case features a maximum 400mW dissipation and  $\pm 25V$  drain to source voltage. Made by Vishay/Siliconix.

**G14103 3/99¢**



## VP0106N3 P-Channel Enhancement-Mode Vertical DMOS FETs

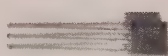
Popular T092 FET by Supertex Inc. features  $-60V$   $BV_{DSS}/BV_{DGS}$  and .5amp  $I_D$  (on). These are used in many motor controls, amplifiers, switches, power supplies, converters and drivers. Brand new fully marked.

**G13509 3/\$1.00**

## J107 N-Channel JFET

High performance JFET analog switches designed for low on-resistance and fast switching. Standard T092 plastic case. Prime marked units by Vishay Siliconix.

**G13703 4/\$1.00**



## Power Mosfets/Hexlets Etc.

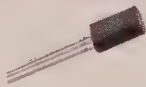


Type	Case	Stock#	Price
IRFZ20	T0220	G12977	\$1.59
IRFZ34S	D2PAK	G12978	\$2.49
IRF9Z30	T0220	G12979	\$1.59
IRF540	T0220	G12980	\$1.59
IRF720	T0220	G12981	\$1.69
IRF9540	T0220	G12983	\$1.79
IRL530N	T0220	G12985	\$2.25
IRL540N	T0220	G12986	\$2.49
IRF720	T0220	G15032	\$1.00
IRF740	T0220	G15033	\$1.40
IRF832	T0220	G15034	\$1.50

## MPF960 N-Channel Mosfet

Popular N-Channel mosfet transistor in the elongated TO92 case. This is rated 2 amps@60 volts.  $R_{DS(ON)} = 0.8\Omega$ . Rated 1Watt total device dissipation. Full length leads.

**G14773 2/\$1.00**



## IRFP250N 33Amp 200V N-Channel Power Mosfet

Powerful Mosfet rated 180 watts is in the TO-247 package. Full length leads.

**G14611 \$1.49 ea.**



## Prime N-Channel T0220 Case Mosfets

Part#	Volts	Amps	Stock#	Price
IRF621	150V	2.5 Amp	G14793	2/\$1.00
IRF642	200V	10 Amp	G14794	\$1.00
IRFZ20	50V	15 Amp	G14795	2/\$1.00



## Triacs/SCRs

### Teccor®P3203AA Three Chip SIDACTor® Device

This 3 lead TO-220 plastic case part is used to protect ISDN interface circuits. Unique and simple to use. This device is rated  $V_S = 350V$ ,  $V_t = 8V$ ,  $I_{drn} = 5\mu A$  and  $I_t = 2.2A$ . See Teccor website for complete specs. Blowout price.

**G14070 3/99¢**



## IRF640 200V 18Amp N-Channel Enhancement Mode TMOS FET

Prime FET in the T0-220 case. Rated 125 watts. Full length leads. Made by IR.

**G13812 2/\$1.00**



## 2SJ162 Silicon P-Channel Mosfet

Large TO218 plastic case mosfet by Hitachi is found hundreds of high power amplifiers. Rated 160V 7Amp 100Watt. Prime fully marked. Blowout Price!

**G14552 \$2.99 ea.**



## BTS112 Power Fet

Popular FET in a T0220 case. These have had their leads cut and formed into the shape shown in the picture, however they are prime marked units.

**G4099 2/\$1.00**



## Voltage Controlled Resistor Fet

Designed for small signal electronic attenuators, filters, amplifier gain control, oscillator amplitude control, etc. Made by Siliconix part #VCR2N, these have been specially designed to be a 3 terminal variable resistor where the resistance value between two of the terminals is controlled by a voltage applied to the third. These are prime, fully marked T018 metal case resistor FETs with a drain-source ON resistance range of  $20\Omega$  min. to  $60\Omega$  max. Complete with 10 pages containing info, specs, formulae and application notes. Very unique, interesting and useful device!

**G4257 2/\$1.00**

**G4257A 100/\$40.00**



## STW18NB40 High Voltage/Power Mosfet

This advanced technology PowerMesh™ mosfet is rated 400V@18.4Amps. Features a TO-247 case and 190 watts@25°C total dissipation. The  $R_{DS(on)}$  is extremely low ( $<0.26\Omega$ ), and the drain current is rated a continuous 18.4 Amps @ 25°C. These are used in many high power, high speed switch mode power supplies, DC-AC converters for welding equipment, large uninterruptible power supplies and motor drive circuits. Prime factory marked part made by ST Microelectronics. The regular price on these is \$4-\$5 each.

**G14715 99¢ ea.**



## IRF 630 N-Channel 200V 10Amp MOSFET

Prime MOSFET with full length leads. Plastic T0-220 case, fully marked. Made by IR.

Stock#	Price
G13802	2/\$1.00
G13802A	50/\$22.00



## High Voltage Enhancement Mode N-Channel MOSFET Type VN0535

This features a  $BV_{DSS} = 350V$ ,  $R_{DS} = 35$  and  $C_{ISS} = 45pf$ . T092 plastic case with cut and formed leads for PC mounting as shown.

**G14069 5/\$1.00**



## Motorola 400V 16amp MTW 16N40E Mosfet

Motorola heavy duty N-channel mosfet in a T0-247 plastic package. This has its leads bent over for pc board insertion. Prime fully marked part.

**G12997 \$1.00 ea.**



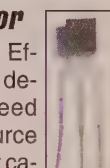
## 2N5639 JFET Chopper Transistor

Small T0-92 N Channel Junction Field Effect Transistors (depletion mode Type A) designed for chopper or other high speed applications. Features Low Drain-Source "On" resistance and Low reverse transfer capacitance of 4pF max @ 1MHZ. Prime made by Fairchild. On tape & reel.

**G13669 3/\$1.00**

**G13669A 100/\$25.00**

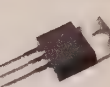
**G13669B 2000/\$360.00**



## IRFZ24N N-Channel Mosfet

Prime 50 watt N-Channel mosfet by IR.  $V_{DSS} = 60V$ ,  $R_{DS(ON)} = 0.10 \Omega$ ,  $I_D = 17A$ . Standard TO-220AB case.

**G14743 \$1.00 ea.**



## IRF740 400V 10 Amp Mosfet

Prime mosfet by IR is an N-channel 400V 10Amp T0220 case part. These are found in many high efficiency DC-DC converters, UPS units and motor control circuits.

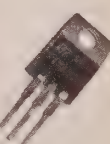
**G14309 \$1.29 ea.**



## IRF520 N-Channel Power Mosfet

This N-Channel power mosfet is rated 100V 10Amp. Standard T0220 case. Has full length leads.

**G15297 2/\$1.00**



## IRF530 N-Channel Mosfet Blowout

We have thousands of these brand new fully marked 63 Watt Mosfets. We made a special purchase and are passing the savings on to you. Standard T0220 case with shortened leads as shown (for PC board mounting).

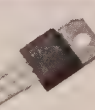
**G14896 5/\$1.00**



## BTA 16-600BW Snubberless Triac

Sensitive gate (50mA) snubberless triac in the T0-220AB insulated case. Rated 600V @ 16Amps. Great for use in AC switching, heating regulation circuits and motor speed controllers. Prime, made by ST. Blowout price!

**G14779 \$1.00 ea.**



## 2N682 50V 16Amp Phase Control SCR

This powerful phase control SCR made by IR is supplied in a T0-48 stud mount package. See the IR website for complete specs. Prime, fully marked - you supply stud mounting nut.

**G13737 \$1.00 ea.**





### 2N6400 Silicon Controller Rectifier Amp

Popular reverse blocking thyristor 2N6400 by ON Semiconductor™ features a 50V, 16 amp rating with a peak non-repetative surge current rating of 160 amps. Standard T0-220AB case. Blowout pricing.  
**G14778 4/\$1.00**

### PowerTriacs

Part#	Volts	Amps	Stock#	Price
2N6073	400V	4AMP	G4443	\$1.00 ea.
2N6400	50V	16AMP	G4445	\$1.00 ea.

\*Please Note: Case styles may vary from picture

### Super SCR Assortment

Assortment of 4 different prime SCRs. Please note: case styles may vary from picture. All are brand new.

**G13691 \$1.00**

### TIC2060D 400V 4Amp Triac

Popular 400V 4Amp sensitive gate triac in the plastic T0220 case. Prime units with full length leads.

**G15230 2/\$1.00**

### Mitsubishi BCR8CM-8LA Triac

Rated 400V @ 8Amps this T0220 case triac is used in many household items such as TV sets, stereos, refrigerators, washing machines, fans, etc. Brand new- Full length leads.

**G15276 99¢ ea.**

### MAC8N T0-220AB 800V 8Amp Triac

High performance triac in a T0-220AB case features  $I_{TSM} = 80Amps$ ,  $I_{GT} = 35mA$  and a  $V_{GT} = 1.5V$ . These are new units made by Motorola with full length leads bent over as shown to allow for horizontal PC board mounting (leads can simply be bent straight if you desire). Blowout price!

**G14567 4/\$1.49**

### BCR5AS Medium Power Triac

Small case triac is used in many switching power supplies, light dimmers, electric fans, electric blanket controls, etc. Rated 600V  $I_{TSM}^{(RMS)} = 5Amp$ ,  $I_{FGT} = 30mA$ . MP-3 (D-PAK) case. Brand new on tape & reel. Blowout price!

**G14613 3/99¢**

### TIC106D 400V 5Amp SCR

Sensitive gate SCR type TIC106D is rated 400V @ 5Amp. This is in the standard T0220 plastic package. Full length leads.

**G15232 \$1.00 ea.**

### BT1690 T092 Thyristor (Logic Level)

Popular T092 plastic case logic level thyristor is rated 400V @ .8amp. Sensitive gate type with a typical gate trigger current of 50µA. Prime-fully marked-long leads.

**G13313 10/\$1.00**

### International Rectifier 16RIA80 800V 16Amp Thyristor

Metal case T0-48 Thyristor (phase control type) rated 800V @ 16amps.  $V_{GT} = 2.0V$ ,  $I_{GT} = 60ma$  and  $dv/dt = 300v/\mu s$ . Brand new fully marked.

**G12765 \$4.95 ea.**

### MCR69-3 100V 25 Amp SCR

Standard T0-220AB case power SCR by "ON" features a 25 amp on-state RMS current rating.

**G14280 2/\$1.00**

### 100V 35Amp SCR MCR70-3

Stud mounting case 175-03 SCR is rated 100V @ 35 amps. Sorry no mounting nut supplied.

**G14749 \$1.79 ea.**

### MCR100-6 400V .8Amp SCR

Sensitive gate SCR in the T092 plastic package. Made by Motorola type MCR100-6 rated 400V @ .8Amp. Full length leads.

**G15253 3/\$1.00**

## Misc. Semiconductors

### Rare Antique Transistor Type 2N128 JAN

This PNP germanium transistor was one of the early "high frequency" types. These found extensive usage in early government/defense applications. In fact in 1961 the ORDVAC (Ordinance Variable Automatic Computer) made for the U.S. Army, used 1300 of these beauties! Ours are metal case JAN (government rated) units which are metal case with original marking and full length leads. Own a bit of history before these disappear forever!

**G2299 \$1.00 ea.**

### 2N5682 Silicon NPN Transistor

Metal T05 case 2N5682 silicon NPN transistor for general purpose switching and general purpose amplifiers.  $V_{CE0} = 120V$ ,  $I_C = 1Amp$  and power dissipation (with heat sink) = 10Watt.

**G15336 \$1.29 ea.**

### BC337 NPN T092 Transistor

Popular NPN T092 transistor rated  $I_C = 800mA$ ,  $V_{CBO} = 50V$ ,  $f_T = 100MHz$ . These are on tape & Reel marked C33740.

**G14748 10/\$1.00**

### 3N138 Mosfet

This metal T018 case mosfet is used in many popular circuits. It has 4 leads with a nylon insulated standoff. Marked 3N138. Prime

**G15333 2/\$1.00**

### IRF612 N-Channel Power Mosfet

this is an N-Channel enhancement mode mosfet in the T0-220AB plastic case. The IRF612 is rated  $V_{DS} = 200V$ ,  $I_D = 2.6Amp$  and power dissipation = 43Watts. Full length leads.

**G15334 2/\$1.00**

### 2N6725 NPN Darlington Transistor

High gain NPN darlington transistor features a collector current of up to 1.2 amps. Gain is up to 40,000 and collector to emitter breakdown voltage is 50V (min). Prime in T0-237 plastic package with full length leads. Blowout price! Made by National, on tape & reel.

**G14220 3/\$1.00**

### Semiconductor Treasure Bag!

We have a fantastic surprise bag filled with ICs, transistors, voltage regulators, power transistors, etc. You get 50 pieces of quality, standard marked semiconductors for \$5.00! Each assortment is different. An incredible bargain!

**G15287 \$5.00**

## Integrated Circuits

### Super IC Assortment

Assortment of 25 prime ICs including TTL memory, linear, voltage regulators, and CMOS types. All are marked with standard numbers (not house marked). Incredible value! Each assortment is different, so order several and stock up!

**G2010 \$5.00**

### CMOS IC Assortment

Tremendous assortment of 25 of the various standard marked prime 4000 series CMOS ICs. Stock up at a real savings.

**G921 \$5.00**

### DS75176B Multipoint RS-485/RS-422 Transceivers

The DS75176B is a high speed differential Tri-State® bus/line transceiver in an 8 pin dip package. Meets EIA standard RS485 for multipoint bus transmission and operates from a single +5V supply. Prime- Made by National.

**G14740 2/\$1.00**

### Opto Isolator

#### I/C Assortment

Great assortment of 5 different opto isolators. All marked and prime.

**G5814 \$2.00**

### Motorola MC14569BCPP Programmable Divide-by-N Dual 4-Bit Binary BCD Down Counter

Prime CMOS IC in a 16 pin dip package. Blowout price!

**G14642 3/99¢**



## Integrated Circuits

7400 SERIES			74ALS139	G4689A	\$0.50	74F112	G4744A	\$0.45	74HC175	G4809A	\$0.52	74HCLTS541	G12590	\$0.70	
7401	G4629A	\$0.35	74ALS163	G4691A	\$0.75	74F113	G12510	\$0.45	74HC193	G4810A	\$0.62	74LS SERIES			
7403	G4631A	\$0.35	74ALS169	G12455	\$0.75	74F125	G4745A	\$0.45	74HC237	G12543	\$0.52	74LS00	G4873A	\$0.25	
7404	G4632A	\$0.38	74ALS175	G4692A	\$0.70	74F132	G15067	\$0.50	74HC240	G4811A	\$0.62	74LS01	G4874A	\$0.25	
7405	G4633A	\$0.35	74ALS241	G12460	\$0.90	74F138	G4746A	\$0.35	74HC244	G4813A	\$0.62	74LS02	G4875A	\$0.25	
7406	G4634A	\$0.45	74ALS244	G4693A	\$0.90	74F139	G4747A	\$0.35	74HC245	G4814A	\$0.80	74LS03	G4876A	\$0.25	
7408	G4636A	\$0.59	74ALS245	G4694A	\$0.90	74F151	G4748A	\$0.35	74HC251	G4815A	\$0.48	74LS04	G4877A	\$0.25	
7410	G4637A	\$0.35	74ALS273	G4695A	\$1.00	74F153	G4749A	\$0.35	74HC253	G4816A	\$0.48	74LS05	G4878A	\$0.25	
7411	G4638A	\$2.25	74ALS299	G12463	\$2.25	74F157	G4750A	\$0.35	74HC257	G12545	\$0.48	74LS08	G4879A	\$0.25	
7414	G4639A	\$0.45	74ALS373	G4696A	\$0.90	74F158	G4751A	\$0.40	74HC258	G12546	\$0.48	74LS09	G4880A	\$0.29	
7416	G4640A	\$0.29	74ALS374	G4697A	\$0.90	74F161	G4752A	\$0.40	74HC273	G4817A	\$0.62	74LS10	G4881A	\$0.25	
7417	G4641A	\$0.35	74ALS465	G12464	\$1.45	74F163	G15068	\$0.55	74HC299	G12547	\$0.96	74LS11	G4882A	\$0.25	
7420	G4642A	\$0.49	74ALS519	G4698A	\$0.90	74F164	G4753A	\$0.55	74HC354	G4818A	\$0.44	74LS14	G4883A	\$0.25	
7425	G4643A	\$0.99	74ALS520	G12465	\$1.45	74F175	G4754A	\$0.50	74HC365	G12548	\$0.44	74LS15	G4884A	\$0.25	
7428	G4644A	\$0.59	74ALS521	G12466	\$1.45	74F191	G12511	\$0.45	74HC368	G4819A	\$0.44	74LS20	G4885A	\$0.25	
7430	G4645A	\$0.29	74ALS528	G4699A	\$2.75	74F193	G4755A	\$0.45	74HC373	G4820A	\$0.62	74LS21	G4886A	\$0.25	
7432	G4646A	\$0.59	74ALS534	G12467	\$1.25	74F240	G4756A	\$0.40	74HC374	G4821A	\$0.62	74LS27	G4887A	\$0.25	
7437	G4647A	\$0.49	74ALS541	G12469	\$2.25	74F243	G4757A	\$0.40	74HC375	G4822A	\$0.62	74LS30	G4888A	\$0.25	
7438	G4648A	\$0.35	74ALS569	G12470	\$2.25	74F244	G4758A	\$0.40	74HC386	G4823A	\$0.62	74LS32	G4889A	\$0.25	
7445	G4649A	\$0.89	74ALS573	G12471	\$1.00	74F245	G4759A	\$0.40	74HC393	G12549	\$0.58	74LS33	G4890A	\$0.40	
7474	G4650A	\$0.45	74ALS574	G12472	\$1.00	74F251	G4760A	\$0.40	74HC402	G15073	\$0.40	74LS37	G4891A	\$0.25	
7475	G15059	\$1.80	74ALS640	G4700A	\$1.25	74F253	G4761A	\$0.40	74HC406	G15074	\$0.40	74LS38	G4892A	\$0.29	
7492	G4652A	\$0.99	74ALS645	G4701A	\$2.05	74F257	G4762A	\$0.40	74HC540	G12550	\$0.70	74LS40	G4893A	\$0.29	
7496	G4653A	\$0.59	74ALS646	G4702A	\$2.75	74F258	G4763A	\$0.40	74HC541	G4824A	\$0.70	74LS42	G4894A	\$0.69	
74107	G4654A	\$0.25	74ALS841	G12474	\$3.50	74F273	G4764A	\$0.40	74HC573	G12552	\$0.70	74LS51	G4895A	\$0.35	
74123	G4655A	\$0.89	74ALS993	G4703A	\$1.55	74F280	G4765A	\$0.40	74HC574	G12553	\$0.70	74LS54	G4896A	\$0.50	
74128	G4656A	\$0.55	74ALS996	G4704A	\$1.60	74F299	G4767A	\$0.40	74HC592	G12555	\$0.82	74LS74	G4897A	\$0.29	
74132	G4657A	\$0.69	74AS SERIES			74F367	G12512	\$0.40	74HC595	G12556	\$0.82	74LS75	G4898A	\$0.55	
74148	G4658A	\$0.79	74AS00	G12478	\$0.40	74F373	G4769A	\$0.40	74HC648	G12557	\$0.75	74LS76	G4899A	\$0.69	
74155	G4659A	\$0.29	74AS02	G4705A	\$0.40	74F374	G4770A	\$0.40	74HC688	G4826A	\$0.88	74LS85	G4900A	\$0.35	
74157	G4660A	\$0.35	74AS10	G12480	\$0.40	74F377	G4771A	\$0.40	74HC4016	G4829A	\$0.44	74LS86	G4901A	\$0.29	
74160	G4661A	\$0.25	74AS11	G12481	\$0.40	74F379	G4772A	\$0.40	74HC4017	G4830A	\$0.60	74LS91	G4902A	\$0.29	
74161	G4662A	\$0.35	74AS20	G4707A	\$0.40	74F521	G15069	\$0.70	74HC4020	G4831A	\$0.70	74LS93	G4903A	\$0.69	
74163	G4663A	\$0.39	74AS30	G12483	\$0.40	74F533	G15070	\$0.85	74HC4024	G12558	\$0.52	74LS95	G4904A	\$0.39	
74164	G15060	\$0.80	74AS32	G4708A	\$0.40	74F825	G4775A	\$0.60	74HC4040	G4832A	\$0.68	74LS107	G4905A	\$0.25	
74165	G4664A	\$0.69	74AS74	G4709A	\$1.50	74F1763	G12513	\$0.60	74HC4046	G4833A	\$2.00	74LS109	G4906A	\$0.25	
74170	G4665A	\$1.90	74AS158	G12487	\$0.45	74FCT SERIES			74HC4050	G12559	\$0.44	74LS112	G4907A	\$0.25	
74173	G4666A	\$1.05	74AS161	G4712A	\$2.20	74FCT240	G12514	\$0.55	74HC4051	G12560	\$0.84	74LS113	G4908A	\$0.49	
74174	G4667A	\$0.29	74AS163	G4713A	\$2.20	74FCT244	G12515	\$0.55	74HC4053	G12562	\$0.84	74LS122	G4909A	\$0.39	
74175	G4668A	\$0.29	74AS169	G12488	\$2.20	74FCT399	G12518	\$0.55	74HC4066	G4834A	\$0.44	74LS123	G4910A	\$0.35	
74177	G4669A	\$0.29	74AS194	G12489	\$1.95	74FCT543	G12521	\$0.60	74HC4075	G4835A	\$0.34	74LS125	G4911A	\$0.35	
74193	G15061	\$1.50	74AS244	G4714A	\$1.60	74FCT827	G12525	\$0.60	74HC4078	G4836A	\$0.34	74LS126	G4912A	\$0.35	
74195	G4670A	\$0.29	74AS245	G4715A	\$1.80	74FCT833	G12526	\$0.60	74HC4316	G12563	\$0.48	74LS132	G4913A	\$0.32	
74298	G15062	\$1.25	74AS250	G4716A	\$2.20	74H SERIES			74HC4514	G4837A	\$2.20	74LS133	G4914A	\$0.29	
74365	G4671A	\$0.59	74AS257	G4717A	\$0.40	74H00	G15071	\$0.30	74HC4538	G12565	\$2.20	74LS137	G4915A	\$1.00	
74367	G4672A	\$0.25	74AS258	G12490	\$0.40	74H04	G12527	\$0.30	74HC9114	G12567	\$0.55	74LS138	G4916A	\$0.29	
74368	G4673A	\$0.65	74AS280	G12491	\$1.10	74H05	G12528	\$0.30	74HCT SERIES				74LS139	G4917A	\$0.29
74AC SERIES			74AS298	G12493	\$1.20	74H21	G12531	\$0.30	74HCT00	G4839A	\$0.34	74LS145	G12596	\$0.45	
74AC00	G12401	\$0.34	74AS374	G4718A	\$1.50	74H54	G12532	\$0.30	74HCT02	G4840A	\$0.34	74LS148	G4918A	\$0.89	
74AC02	G15063	\$0.15	74AS375	G12494	\$1.25	74HC SERIES			74HCT04	G4841A	\$0.34	74LS151	G12597	\$0.29	
74AC10	G12403	\$0.34	74AS533	G12495	\$1.75	74HC00	G4777A	\$0.34	74HCT08	G4842A	\$0.34	74LS152	G12598	\$0.45	
74AC32	G12404	\$0.40	74AS651	G4719A	\$3.50	74HC02	G4778A	\$0.34	74HCT14	G4844A	\$0.40	74LS153	G4919A	\$0.29	
74AC74	G12405	\$0.40	74AS760	G4720A	\$2.25	74HC03	G4779A	\$0.34	74HCT20	G4845A	\$0.40	74LS155	G4921A	\$0.25	
74AC138	G12406	\$0.46	74AS804	G4721A	\$2.25	74HC04	G4780A	\$0.34	74HCT21	G4846A	\$0.40	74LS157	G4923A	\$0.29	
74AC139	G12407	\$0.46	74AS823	G4722A	\$2.25	74HC05	G12534	\$0.34	74HCT27	G4847A	\$0.34	74LS160	G12599	\$0.69	
74AC244	G15064	\$0.25	74AS1000	G4723A	\$0.90	74HC08	G4781A	\$0.34	74HCT32	G4848A	\$0.34	74LS161	G4925A	\$0.29	
74AC153	G12408	\$0.48	74AS1004	G12499	\$0.90	74HC10	G4782A	\$0.34	74HCT51	G4851A	\$0.40	74LS162	G4926A	\$0.52	
74AC251	G12413	\$0.48	74AS1804	G12500	\$2.00	74HC11	G4783A	\$0.34	74HCT74	G4852A	\$0.38	74LS163	G4927A	\$0.29	
74AC574	G12415	\$0.70	74AS1805	G12501	\$2.00	74HC20	G4785A	\$0.34	74HCT86	G4853A	\$0.40	74LS164	G4928A	\$0.29	
74ACT SERIES			74AS8058	G12502	\$2.00	74HC27	G4786A	\$0.34	74HCT125	G4855A	\$0.40	74LS165	G4929A	\$0.49	
74ACT14	G15065	\$0.20	74AS8088	G12503	\$2.00	74HC30	G4787A	\$0.34	74HCT126	G12570	\$0.50	74LS166	G4930A	\$0.35	
74ACT74	G12419	\$0.40	74BC SERIES			74HC32	G4788A	\$0.34	74HCT138	G4856A	\$0.48	74LS169	G4931A	\$0.59	
74ACT157	G4676A	\$0.44	74BC00	G12504	\$1.00	74HC74	G4790A	\$0.40	74HCT139	G12571	\$0.51	74LS173	G4932A	\$0.39	
74ACT241	G4677A	\$0.55	74BC08	G12505	\$1.00	74HC75	G12536	\$0.40	74HCT153	G1					



74S SERIES			74S157			4015			4512			LM567CN		
74LS352	G4956A	\$1.00	74S158	G12631	\$1.00	4016	G5002	\$0.25	4514	G15081	\$0.75	723	G32130	\$0.49
74LS365	G4957A	\$0.79	74S161	G12632	\$1.00	4018	G5003A	\$0.49	4516	G5039A	\$0.49	LM710CN	G32135	\$0.49
74LS367	G4958A	\$0.29	74S163	G12633	\$1.25	4019	G5004A	\$0.40	MC14528	G12666	\$0.69	LM733CN	G32137	\$0.99
74LS368	G4959A	\$0.29	74S169	G12634	\$1.00	4020	G5005A	\$0.45	4538	G5042A	\$0.49	LM741	G32138	\$0.35
74LS373	G4960A	\$0.39	74S174	G12635	\$1.00	4021	G5006A	\$0.35	4539	G5043A	\$0.49	LM747	G32139	\$2.49
74LS374	G4961A	\$0.39	74S175	G12636	\$1.00	4022	G5007A	\$0.69	4541	G5044A	\$0.49	MC1355	G32141	\$1.00
74LS375	G4962A	\$0.49	74S189	G12637	\$2.95	4023	G5008A	\$0.25	4558	G15082	\$0.25	LM1393	G32142	\$0.39
74LS377	G4963A	\$0.39	74S194	G12638	\$1.75	4025	G5010A	\$0.35	MC14568	G12667	\$0.64	MC1455	G32143	\$0.29
74LS378	G4964A	\$0.89	74S225	G12639	\$1.70	4027	G12656	\$0.25	4572	G15083	\$0.40	MC1488	G32144	\$0.29
74LS390	G4965A	\$0.39	74S240	G12640	\$1.50	4028	G5014A	\$0.29	4585	G5048A	\$0.64	MC1489	G32145	\$0.29
74LS393	G4966A	\$0.45	74S241	G12641	\$1.50	4029	G12657	\$0.49	40097	G15084	\$0.60	MC1723	G32147	\$0.39
74LS399	G12604	\$1.00	74S244	G12642	\$1.50	4040	G15077	\$0.30	40106	G15085	\$0.40	MC1741	G15108	\$0.30
74LS423	G4967A	\$1.05	74S257	G12643	\$1.50	4042	G5012A	\$0.35	40109	G5049A	\$2.95	MC14411	G15118	\$2.80
74LS461	G4968A	\$1.05	74S280	G12644	\$1.50	4043	G5013A	\$0.29	40163	G12669	\$0.74	MC14469	G15119	\$8.00
74LS541	G4969A	\$0.69	74S283	G12645	\$1.50	4044	G15078	\$0.30	40174	G15086	\$0.50	MC14490	G15120	\$3.00
74LS629	G4971A	\$2.49	74S373	G12648	\$2.50	4046	G12659	\$0.65	40188	G5058A	\$0.74	MC14556	G15121	\$1.00
74LS645	G4972A	\$0.59	74S374	G12649	\$2.50	4047	G5015A	\$0.59	40193	G12670	\$0.75	LM2003	G32149	\$0.39
74LS670	G4974A	\$1.00	74S436	G12650	\$2.50	4049	G5016A	\$0.25	<b>LINEAR ICs</b>			HP2300	G32150	\$0.39
74LS682	G4975A	\$1.00	74S1009	G12651	\$2.50	4050	G15079	\$0.22	LM10	G15097	\$0.50	LM1881	G15109	\$0.50
74LS688	G4976A	\$1.19	<b>75 SERIES</b>			4051	G5017A	\$0.45	TL064	G15098	\$0.95	LM2901	G32152	\$0.39
<b>74S SERIES</b>			75107	G4978A	\$0.39	4052	G5018A	\$0.45	TL072	G15099	\$0.50	LM2902	G32153	\$0.39
74200	G12605	\$0.95	75108	G4979A	\$0.39	4053	G5019A	\$0.45	TL074	G15100	\$0.60	LM2903	G32154	\$0.39
74S02	G12606	\$0.95	75109	G4980A	\$0.39	4060	G5020	\$0.30	TL081	G15101	\$0.28	LM2904N	G32155	\$0.39
74S04	G12607	\$0.95	75110	G4981A	\$0.49	4066	G5021A	\$0.35	TL082	G15102	\$0.35	LM2917N	G32156	\$2.95
74S08	G12608	\$0.95	75112	G4982A	\$0.49	4067	G12660	\$1.75	TL083	G15103	\$0.40	LM7171	G15116	\$0.50
74S09	G12609	\$0.95	75117	G4983A	\$0.49	4068	G12661	\$0.34	TL084	G15104	\$0.40	LM13600	G15117	\$0.75
74S10	G12610	\$0.95	75121	G15075	\$0.50	4069	G5022A	\$0.25	TLC2721	G32151	\$0.39	CA3046	G32157	\$0.49
74S11	G12611	\$0.95	75122	G15076	\$0.50	4070	G5023A	\$0.25	TL7705	G32175	\$0.49	CA3083	G15111	\$0.65
74S15	G12612	\$0.95	75124	G4984A	\$0.59	4071	G5024A	\$0.34	LM224	G15105	\$0.30	CA3089	G15112	\$0.60
74S20	G12613	\$0.95	75173	G12652	\$1.69	4072	G12662	\$0.34	LM239	G15106	\$0.25	CA3140	G15113	\$0.45
74S30	G12614	\$1.00	75175	G12653	\$1.09	4073	G5025A	\$0.34	LM301	G32103	\$0.49	CA3160	G15114	\$1.00
74S32	G12615	\$1.20	75177	G12654	\$1.09	4077	G12663	\$0.34	LM311	G32108	\$0.39	LM3046	G32158	\$0.49
74S37	G12616	\$1.20	75189	G4987A	\$0.25	4078	G5026A	\$0.34	LM319	G32110	\$0.79	CA3130AE	G32162	\$1.29
74S38	G12617	\$1.20	75451	G4988A	\$0.35	4081	G5027A	\$0.25	LM324	G32112	\$0.29	M3403	G32164	\$0.39
74S40	G12618	\$0.95	75452	G4989A	\$0.45	4082	G5028A	\$0.34	LM339	G32113	\$0.29	PBL3713	G32165	\$0.39
74S51	G12619	\$0.95	75454	G4990A	\$0.45	4085	G5029A	\$0.60	LF347	G32115	\$0.59	UC3842	G32166	\$0.49
74S64	G12620	\$0.95	75461	G4991A	\$0.45	4094	G5030A	\$0.49	LM348	G32117	\$0.49	UC3843	G32167	\$0.49
74S74	G12621	\$1.00	75466	G4992A	\$0.45	4098	G12664	\$0.49	LF356	G32119	\$0.79	SG3525	G15115	\$0.40
74S85	G12622	\$1.00	75473	G4993A	\$0.55	4152	G15080	\$0.60	LM358	G32120	\$0.69	SG3845	G32168	\$0.49
74S86	G12623	\$1.50	75477	G4994A	\$0.50	4174	G5031A	\$0.50	LM359	G32121	\$0.69	MC4558	G32171	\$0.59
74S109	G12624	\$2.00	<b>4000 SERIES</b>			4175	G5032A	\$0.50	LM361	G32122	\$0.69	ICL7673	G32174	\$0.49
74S112	G12625	\$2.00	4001	G4996A	\$0.25	4501	G5033A	\$0.59	LM380	G32123	\$1.19	MC14490P	G32178	\$2.99
74S133	G12626	\$1.50	4011	G4997A	\$0.25	4502	G5034A	\$0.56	LM393	G32124	\$0.29	TBA2800	G15110	\$1.70
74S138	G12627	\$1.50	4012	G4998A	\$0.34	4503	G5035A	\$0.49	LM398	G32125	\$1.49			
74S140	G12628	\$1.61	4013	G4999A	\$0.25	4504	G5036A	\$0.49	LF442	G15107	\$0.65			
74S151	G12629	\$1.50	4014	G5000A	\$0.66	4508	G5037A	\$0.49	555	G32128	\$0.39			

## Linear ICs

### Motorola ULN2802A 8 Darlington Array IC

This 18 pin dip IC features 8 separate NPN Darlington transistor with common emitters and integral suppression diodes for inductive loads. Max voltage is 13V, max current at Vce= 2V is Ic=300mA.

**G14164 4/\$1.00**

### HCF4046BE Micropower Phase-Locked Loop

Micropower PLL by ST features a 16 pin dip package. Prime fully marked parts.

**G13660 2/\$1.00**

### Custom Melody ICs

Here's a simple way to use an IC that produces a musical tune. Requires one 4049 IC and a few resistors, transistors and capacitors. Will drive a 2" speaker to full volume. Complete with simple schematic using a 9V battery. These unique 14 pin dip ICs are available in 3 tunes.

**"On Wisconsin" G2161 \$1.00 ea.**

**"Univ of Arkansas" G2162 \$1.00 ea.**

**"Marine Hymn" G2163 \$1.00 ea.**

### TBA120S FM Demodulator IC

The TBA120S FM demodulator IC operates from 6 to 18VDC and features an AF gain control range of >70dB. It has in addition to the demodulator function, a remote AF gain control, audio amp and quadrature feedback. This is in the standard 14 pin Dip package.

**G15224 \$1.29 ea.**

### 4 Amp Linear Driver with Heat Sink Type L149

High output current, high gain linear driver IC by SGS-Thompson in the 5 pin Pentawatt® package. These are brand new and have a clip on heat sink attached. These are used in servo drivers, power boosters, etc. See full specs on internet.

**G13863 \$1.49 ea.**

### Comparator/Op Amp Blowout

Super price on these factory prime fully marked ICs. Hurry as these won't last long at this price! Some of these retail for over \$2.00 each!

Part#	Stock#	Price
LM311N	G14184	5/\$1.00
LM324	G13290	5/\$1.00
LM339	G13291	5/\$1.00
LM347	G13292	5/\$1.00
LM393	G13293	5/\$1.00
LM348N	G14186	5/\$1.00
LM358N	G14187	5/\$1.00
LM13600N	G14191	5/\$1.00
SE532FE	G14180	5/\$1.00

### TL594CN

Precision switch mode pulsewidth modulation control circuit in a 16 pin dip package. Prime- made by TI.

**G14744 2/\$1.00**

### LM567CN Tone Decoder

Prime 8 pin Dip case tone decoder by National. This is one of the most commonly used tone decoders as used in hundreds of circuits.

**G13659 3/\$1.00**

**G13659A 100/\$25.00**

### BA 4558 Dual Op Amp

Low power consumption dual op amp with internal phase compensation for high speed and wide bandwidth plus low noise. Standard 8 pin dip package. Blowout price!

**G14541 3/99¢**

### National LM837N Low Noise Quad Op Amp

Prime low noise Quad Op Amp in a standard 14 pin dip package. Brand new.

**G13645 4/\$1.00**

### Harris ICM7556I PD General Purpose Timer IC

This is used in precision timing circuits, PWM, pulse position modulation, sequential timing, etc. The ICM7556IPD is made by Harris and is in the standard 14 pin Dip package.

**G15225 99¢ ea.**



## Integrated Circuit Amps

### TL061 JFET-Input Op Amp

Prime JFET input op amp in the 8 pin dip package. This popular op amp is found in many devices.

**G14775 2/\$1.00**

### LM380N-8 Mini Power Amp IC

Popular 8 pin dip IC audio amp made by National.

**G14163 2/\$1.00**

### 100Watt Amplifier IC LM3875

High performance audio power amplifier IC capable of delivering 100 watts instantaneous peak output power or 40 watts continuously into an 8Ω speaker 20Hz-20KHz. Specs: signal-to-noise ratio - 95db(min), output short to ground protection, supply voltage min. - 20VDC, max. - 84VDC, thermal protection, spike protection. Great for stereo power amplifiers (requires 2 units), self-powered speakers, surround sound amplifiers, etc. TRA11B, 11 pin power package. Prime with specs and simple application circuit diagram.

**G6943 \$4.50 ea.**

### TDA1013B 4Watt Audio Power Amp

Integrated audio amplifier circuit with DC volume control in a 9 pin single in-line plastic package. Operates from 10 to 40 volts DC and can be used in all types of power amplifier applications. Requires only a few external components. The DC volume control has a range of more than 80db and is controlled by a DC voltage of between 2 and 6.5V. Brand new with complete data sheet package.

**G4271 \$2.49 ea.**

### TDA2005 20Watt Class B Amp

Made by SGS, tis 20watt bridge amplifier is perfect for car audio applications. Features flexibility in use: bridge or stereo booster amplifiers with or without bootstrap and with programmable gain and bandwidth. Multiwatt-11® package. Operates from 12 to 18VDC. Max current draw: 4.5amps. Complete with several schematics for use.

**G2164 \$5.95 ea.**

### 40W + 40W Stereo Amplifier IC

#### N82DYI (TDA 8563)

Simple to use power amplifier IC made by Philips is marked N82DY, however it is the TDA8563 80watt booster IC capable of 40W + 40W stereo into a 2Ω speaker. Operates from 8 to 18VDC and has a frequency response of 20Hz to 20kHz with max distortion 1%. Brand new in 13 pin plastic package. We include a simple schematic for making a stereo booster amplifier.

**G13043 \$6.95 ea.**

### TDA7256 30-Watt Bridge Car Radio Amplifier IC

Made by SGS-Thomson, this simple to use 11 pin IC requires few external components. See Internet for full specs!

**G14601 \$3.95 ea.**

### LM158J6 Dual Op Amp

Dual Op Amp in the 8 pin mini-dip package. Operates on 3 to 30V. High gain amplifiers designed for single voltage supply.

**G13662 4/\$1.00**

### LM741CN Op Amp IC

Popular LM741CN in the 8 pin dip package.

**G14167 2/\$1.00**

### LM388N-1 1.5 Watt Audio Power Amplifier

Easy to use 14 pin dip 1.5 watt audio power amplifier requires a minimum of external parts. Great for AM-FM radios, portable tape players, CD players, ultrasonic drivers, intercoms, etc. Operates from 4V to 12VDC, quiescent current 23mA max. Use with 4Ω to 8Ω speakers and input resistance is 50KΩ. Prime - fully marked units.

**G13817 \$1.00 ea.**

### ULN 2003 Darlington Array

Standard 16 pin dip IC contains an array of 7 Darlington transistors capable of 500mA drive current each. These are prime and at a blowout price!

**G14651 3/99¢**

### TL074 Low Noise Quad J-FET Op Amp

Popular 14 pin dip quad J-FET input op amp.

**G14655 2/99¢**

### TDA1908 8-Watt Audio Amplifier IC

Made by SGS-Thomson, this 8 watt monolithic IC in a 12 lead quad in-line plastic package operates from 4VDC up to 30VDC. See full specs on internet.

**G14603 \$1.29 ea.**

### Motorola MC1490P Wideband RF/IF Audio Amplifier

The MC1490P has a wide range AGC for use in RF/IF and audio amplifiers over a temperature range of -40°C to 85°C. Operates on 6 to 15VDC single polarity supply. Wide range AGC 60dBmin, DC to 60MHz. Plastic 8 pin dip package

**G14745 2/\$1.00**

### TL072CP Low-Noise JFET-Input Op Amp

Prime JFET op amp in 8 pin dip package. These are very popular! Blowout price!

**G14612 3/99¢**

### Super Op Amp Sale

Prime fully marked dual op amp. This is in the 8 pin dip package. Blowout price! LM2904N type amp.

**G13829 4/\$1.00**

### TDA 7240A 20W Bridge Amplifier IC

Compact 7 pin heptawatt package (about the size of a T0-220) amplifier IC by SGS-Thomson requires only a few external components. Features low distortion/ low noise, and operation from 10VDC up to 18VDC. Great for car radio applications. See full specs on Internet.

**G14605 \$1.99 ea.**

### TDA2009A 10-Watt +10-Watt Stereo Amplifier IC

High quality 11 pin stereo amplifier IC by SGS-Thomson requires few external components. Can be operated from 8 to 22VDC. See Internet for full specs.

**G14602 \$1.49 ea.**

### TDA2050 32Watt HiFi Audio Power Amplifier

High output (50W music power) amplifier requires only a couple of external resistors and capacitors to make a great sounding class AB audio amplifier. It can deliver 50 watts music power into a 4 ohm load. Requires ± 25VDC power or 40V single supply. Brand new by SGS Thomson. Case is standard 5 pin Pentawatt (about the size of a T0220 plastic power transistor). Check the internet for full specs on this incredible amplifier IC. Prime fully marked.

**G13588 \$2.49 ea.**

### LM4950 Boomer® 7.5 Watt Mono-BTL or 3.1 Watt Stereo Audio Power Amplifier

Dual audio power amp designed for demanding application in TV's and flat panel monitors. Capable of delivering 3.1 watts per channel to a 4Ω single ended load with less than 1% THD +N or 7.5 watts mono BTL to an 8Ω load. Operates on 12VDC. Designed for high quality output with minimum external components. Quiescent current demand only 16 mA. Made by National in the 9 pin T0-220 plastic package. Prime fully marked part. See web for a complete spec sheet.

**G14042 99¢ ea.**

### LM4755T 11Watt Stereo Audio Amplifier IC

Small 9 pin TAO9A case (about the size of a T0-220) amplifier IC features mute, operation from a single 24VDC supply, 11 watts per channel output to 4Ω speakers and a 34dB closed loop gain. Requires only a few external components and operates on 9V to 40VDC. See full specs on Internet.

**G14657 \$1.79 ea.**

## Opto ICs

### MOC3063 Opto Isolator

The MOC3063 is an optically coupled bilateral switch light activated zero voltage crossing triac. Standard 6 pin dip package.

**G14222 2/\$1.00**

### Quad Channel OPTO Coupler ILQ-1

Made by Siemens this 16 pin dip IC features 4 separate opto couplers in one package. Each opto coupler consists of an internal red LED and a silicon NPN phototransistor. LED operates from 1.25V to 1.65V and the detector features a BV<sub>ceo</sub>=50V.

**G14111 2/\$1.00**



## Opto ICs

### IL755-2 Siemens Opto Coupler

This 6 pin dip opto coupler features a darlington optocoupler. Features collector-emitter breakdown voltage=60V, emitter voltage 1.2V to 1.5V, AC or polarity insensitive inputs and 7500VAC isolation.

**G14112 3/\$1.00**

### 4N32 Opto Isolator

Prime 6 pin dip opto isolator. Photo Darlington output with gallium arsenide IR emitter optically coupled.

**G14746 3/\$1.00**



### OPTO Isolators

Standard 6 pin dip opto isolators. All prime and marked.

Part#	Stock#	Price
4N26	G7629	\$0.49
4N33	G13385	5/\$1.00
4N35	G4081	3/\$1.00
4N36	G8232	2/\$1.00
4N38	G4369	3/\$1.00
MCT2	G13005	3/\$1.00
MCT2E	G13006	2/\$1.00
H11D3	G13392	4/\$1.00
MOC3042	G13399	2/\$1.00



MOC3063	G13400	2/\$1.00
SF600-2 (MCT275)	G6061	3/\$1.00
MCT5211	G6060	3/\$1.00
SF600-2	G6061	3/\$1.00
TIL117	G4084	3/\$1.00
LTV814*	G7627	4/\$1.00

\*(has 4 leads)

### 6N139 Opto Isolator

Designed for low power logic applications involving CMOS and low power TTL. Standard 8 pin dip package contains IR LED and photo darlington - Requires 5.0V for emitter. Brand new - Prime.

**G13262 5/\$1.00**



### MOC3052SR2 6 Pin Dip Rand Phase Triac Output Opto Coupler

Made by Quality Technologies this opto isolator features an infrared diode optically coupled to a non-zero crossing silicon bilateral AC switch (triac). Isolation 7500 volts peak. LED current 10ma. These have their leads cut and formed for SMD mounting. Prime- fully marked & Brand New!

**G13995 4/\$1.00**



## Eproms & Memory ICs

### 24C04 Serial 4K (512x8) EEPROM

Small 8 pin dip EEPROM operates from 3V up to 5.5VDC. Made by SGS-Thomson. See Internet for full specs.

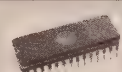
**G14658 99¢ ea.**



### Prime UV Eraseable EPROMS

New, unprogrammed EPROMS. All in standard dip packages.

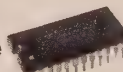
**FM27C512Q-120 512K G14141 \$3.49 ea.**  
**AM27C010-121 Meg G14142 \$3.49 ea.**



### Hitachi HM6116ZP-4 CMOS RAM

Hitachi 2048x8 CMOS RAM. These have been discontinued years ago, but there are still many circuits that use them. We have a very limited quantity. Prime Hitachi branded!

**G14750 \$5.00 ea.**



### FM27C256Q 120 CMOS Eprom

Standard 25K Eprom with window in the 28 pin dip package. These are brand new and features 120NS access time.

**G14652 \$1.49 ea.**



### Mitsubishi M5M27C101K-2 EPROM

Prime ceramic case 32 pin EPROM with UV erase window. These are new, not pulls.

**G14217 \$1.99 ea.**



### 27C020 EPROM Pulls

Fully erasable 27C020 pulls have straight full length leads. Simply peel off the top label (if it has one) expose window to UV light and it's ready to be programmed again. Nice quality- no solder- full length leads- used.

**G13797 99¢ ea. • 10/\$8.00**



## Miscellaneous ICs

### 8000 Series Microprocessors



Stock#	Item	Description	Price
G5727	8031	CPU with 128 x 8 RAM & I/O	\$3.00
G5728	80C31	CPU with 128 x 8 RAM & I/O (CMOS)	\$6.25
G5729	8085	CPU 8bit N Channel 3Mhz	\$2.75
G5730	8086	CPU 16bit 5Mhz	\$4.00
G5732	80C86	CPU 16bit 4Mhz (CMOS)	\$4.25
G5734	8088	CPU 16bit 5Mhz (8bit data bus)	\$3.50
G5735	8088-2	CPU 16bit 8Mhz (8bit data bus)	\$5.50
G5738	80186-6	CPU 16bit 6Mhz	\$4.00
G5740	80286-6	CPU 286 6Mhz	\$8.00
G5741	80286-8	CPU 286 8Mhz	\$9.00
G5742	80286-10	CPU 286 10Mhz	\$10.00
G5743	80C286-12	CPU 286 12Mhz (CMOS)	\$12.00
G5747	82C54	Prog. Interval Timer (CMOS)	\$4.00
G5750	8259	Prog. Interval Controller (UPD71059)	\$1.50
G5752	8286	Octal Bus Transceiver (UPD71086)	\$2.50
G5754	82C284-10	Clock Generator/Interface (CMOS 10Mhz)	\$5.00
G5756	82289		\$7.00

### Giant IC Blowout

We just purchased over a quarter of a million quality IC's from a distributor who wanted to reduce his inventory. Part of the requirement that the distributor made was that the IC's were to be poured out of their tubes and mixed together in large containers. Each IC is prime 100% marked - not pulls. We can't afford the labor to sort them out so we are blowing them out at an incredible price. Each assortment will come in an antistatic bag. We have listed some typical types you will find, however there is no guarantee that all of these types will be in each bag. Each bag is different and will also contain other types not listed. Due to the fact that these are shipped in bulk, some pins may be slightly bent.

**YOUR CHOICE: 1 Bag of 50 ICs \$5.00ea.**

#### Bag 1 - G13876

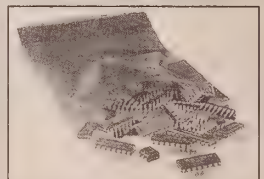
74HCT563E, 74ALS580BN, 74ABT821N, 74LS373, TLP630GB, TLP3022, 9935, MOC8080, MOC119, MOC8107, 74F112N, 4013BE, 74LS153, 74LS32, 74LS85, 4050, 74HC451

#### Bag 2 - G13877

4N39, MOC8080, 74F823, PALCE20V8H, -25PC/4, 74HC221B, 74ACT14, 74HCT191, 74HCT4066N, 74F260N, 74ACT04N, TL074CN, ULN2003AN, 74HC10, LM339N, 74175, HCF4040, CD4724

#### Bag 3 - G13878

TLP251, 74ALS654NT, 74AHCT541, 74HCT299, 74F260N, 74HC193, 74ACT240E, 74F2600N, 74HC138N, 74ACT10, 74AS21N, 74AC11N, 74HCT4002, 74LS280N



S

## Surface Mount (SMD) ICs

### SMD NJM 386BE 1 Watt Amplifier

Popular 1 watt audio amplifier in an 8 pin SMD (SOIC-8) case. Made by JRC and Prime marked units similar to the LM386, however this is a SMD case. On tape & reel.

**G1456 3/\$1.00**



### Surface Mount IC Assortment

Tremendous assortment of 25 first quality primed marked SMD ICs. You'll find linear, CMOS, LS and voltage regulators in each assortment. None are house #, all have standard part #s. Stock up now!

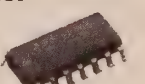
**G5267 \$5.00**



### LM339MX SMD Quad Comparator

Popular quad comparator in the 14-SOP SMD package. This IC features four independent comparators designed to operate from a single power supply over a wide voltage range. These are on tape & reel. Blowout price!

**G14638 7/99¢**





## Surface Mount (SMD) ICs

### SMD LM358A IC

Prime LM358A OP Amp IC made by Philips. Standard SOIC-8 SMD case.

**G1935 2/\$1.00**



### SMD NE556DR IC

Popular dual timer IC in the SOIC-14 SMD package. These are on tape and reel.

**G2085 2/\$1.00**



### SMD 78L05 5V Regulator

Tiny SO-8 SMD 5VDC regulator. These are tape & reel.

**G13947 4/\$1.00**



### LP2951 Adjustable Micro Power Voltage Regulator

This adjustable micro power voltage regulator for battery powered systems features an alarm which warns of low output voltage due to falling batteries on the input and external shutdown. 8-SOP SMD 8 pin package.

**G14742 2/\$1.00**



### SMD MC7808 CD2T +8V 1amp Regulator

Prime 8VDC voltage regulator in the popular d<sup>2</sup> pak SMD package. Made by ON Semiconductor. Marked 7808C.

**G12744 2/\$1.00**



## Surface Mount (SMD) ICs

**NOTE:** These are equivalent to their standard size counterparts except these are in tiny surface mount packages. All are prime marked units. Please note that we have left off the D or M following the part # to avoid confusion.

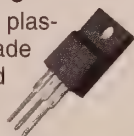
74AC00 SERIES			74HC00 SERIES			74HCT00 SERIES			74ALS00 SERIES			74LS00 SERIES			74HC00 SERIES		
74AC00	G324S	\$0.42	74HC02	G343S	\$0.32	74HCT02	G364S	\$0.42	74ALS00	G329S	\$0.45	74LS00	G334S	\$0.42	74HC00	G342S	\$0.42
74AC08	G325S	\$0.42	74HC14	G344S	\$0.42	74HCT08	G365S	\$0.42	74ALS08	G330S	\$0.37	74LS08	G335S	\$0.42	74HC08	G343S	\$0.42
74AS240	G326S	\$0.45	74HC27	G345S	\$0.45	74HCT132	G366S	\$0.59	74ALS157	G332S	\$0.40	74LS157	G339S	\$0.42	74HC132	G411S	\$0.49
74AS573	G327S	\$0.45	74HC30	G346S	\$0.45	74HCT245	G367S	\$0.42	74ALS244	G333S	\$0.42	74LS244	G340S	\$0.65	74HC138	G349S	\$0.55
74AS869	G328S	\$0.45	74HC32	G347S	\$0.49	74F00	G368S	\$0.35	74ALS32	G330S	\$0.37	74LS32	G336S	\$0.42	74HC139	G350S	\$0.42
74ALS00	G329S	\$0.45	74HC125	G348S	\$0.42	74F08	G369S	\$0.35	74ALS123	G337S	\$0.59	74LS123	G337S	\$0.59	74HC153	G351S	\$0.55
74ALS32	G330S	\$0.37	74HC125	G348S	\$0.42	74F14	G370S	\$0.35	74ALS125	G338S	\$0.42	74LS125	G338S	\$0.42	74HC166	G352S	\$0.69
74ALS32	G330S	\$0.37	74HC132	G411S	\$0.49	74F32	G371S	\$0.36	74ALS175	G339S	\$0.42	74LS175	G339S	\$0.42	74HC174	G353S	\$0.59
74ALS32	G330S	\$0.37	74HC138	G349S	\$0.55	74F74	G372S	\$0.39	74ALS245	G340S	\$0.65	74LS245	G340S	\$0.65	74HC175	G354S	\$0.59
74ALS32	G330S	\$0.37	74HC139	G350S	\$0.42	74F86	G373S	\$0.45	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC244	G355S	\$0.72
74ALS32	G330S	\$0.37	74HC153	G351S	\$0.55	74F126	G374S	\$0.39	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC251	G356S	\$0.59
74ALS32	G330S	\$0.37	74HC166	G352S	\$0.69	74F157	G375S	\$0.45	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC299	G357S	\$0.75
74ALS32	G330S	\$0.37	74HC174	G353S	\$0.59	74F158	G376S	\$0.39	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC373	G358S	\$0.42
74ALS32	G330S	\$0.37	74HC175	G354S	\$0.59	74F174	G377S	\$0.45	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC4053	G359S	\$0.69
74ALS32	G330S	\$0.37	74HC244	G355S	\$0.72	74F245	G378S	\$0.59	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC40103	G360S	\$0.69
74ALS32	G330S	\$0.37	74HC251	G356S	\$0.59	74F373	G379S	\$0.59	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC40103	G360S	\$0.69
74ALS32	G330S	\$0.37	74HC299	G357S	\$0.75	74F374	G380S	\$0.45	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC40103	G360S	\$0.69
74ALS32	G330S	\$0.37	74HC373	G358S	\$0.42	74F541	G381S	\$0.49	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC40103	G360S	\$0.69
74ALS32	G330S	\$0.37	74HC4053	G359S	\$0.69	74F646	G382S	\$0.49	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC40103	G360S	\$0.69
74ALS32	G330S	\$0.37	74HC40103	G360S	\$0.69	74F794	G383S	\$0.42	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HC40103	G360S	\$0.69
74ALS32	G330S	\$0.37	74HCT00	G361S	\$0.29	4030	G384S	\$0.49	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HCT00	G361S	\$0.29
74ALS32	G330S	\$0.37	74HCT04	G362S	\$0.42	4046	G385S	\$0.75	74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HCT04	G362S	\$0.42
74ALS32	G330S	\$0.37	74HCT14	G363S	\$0.42				74ALS373	G341S	\$0.79	74LS373	G341S	\$0.79	74HCT14	G363S	\$0.42

## Voltage Regulators

### JRC 79M08A 3 Terminal -8V Regulator

Negative 8V IC voltage regulator in all plastic TO-220 size case. These were made by JRC and are marked 79M08A. Rated 0.5Amp. Special Price!

**G14543 5/99¢**



### Adjustable 1.2VDC to 37VDC IC Voltage Regulator

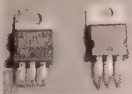
We just purchased thousands of these prime 1Amp voltage regulators made by ST. Each is in the standard TO-220 plastic case with leads formed at a right angle for PC board mount. Prime fully marked perfect units.

**LM317T Positive 1.2V-37V Regulator**

**G13451 4/\$1.00**

**LM337SP Negative 1.2V-37V Regulator**

**G13455 4/\$1.00**



### LM337SP 1Amp Adjustable Voltage Regulator

Fully adjustable from negative 1.2V to negative 37VDC 1Amp voltage regulator in the standard TO220 plastic package. These are fully marked units with their leads crimped as shown to mount on a PC board. Prime.

**G13731 2/49¢**



### LM2936Z-5 Ultra Low Quiescent Current LDO Voltage Regulator

Low dropout 5V voltage regulator features less than 15µA quiescent current at 100µA load. Fixed + 5VDC@50mA output. Brand new in T092 plastic case.

**G15332 4/\$1.00**



### 78L09 Positive 9V Voltage Regulator Super Blowout

We made a special purchase of these prime, marked, full length lead TO92 9V regulators and are passing the savings on!

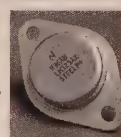
**G14495 4/\$1.00**



### LM323AK 5VDC 3AMP Voltage Regulator

Prime steel case TO3 voltage regulator by National. Rated +5VDC @ 3AMP.

**G14893 \$1.99 ea.**



### LM317K Steel Case Adjustable 1.2-37V Positive Voltage Regulator

Perfect for making powerful bench type adjustable power supplies because with heat sinking this TO3 steel case regulator can handle up to 1.5Amps. Made by National.

**G14554 \$1.99 ea.**



### MC78T24CK TO3 24V 3 Amp Voltage Regulator

Metal TO3 case positive 24V 3 amp voltage regulator by Motorola

**G14278 \$1.99 ea.**



### 7815 +15V 1Amp Regulator

Special purchase prime TO220 plastic case 1amp +15V voltage regulator by TI. These are marked TL780-15C. Has full length leads which have been formed slightly to hold regulator into a PC board before soldering.

**G12733 4/\$1.00**





## Voltage Regulators



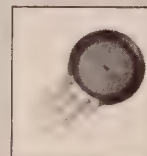
LM217CZ	T092	+1.2 to 37V 0.1amp	G13008	\$1.00	7808	T0220	+8V 1amp	G13025	\$0.35
LM293 1AZ-5	T092		G13009	\$1.00	78L12	T092	+12V 0.1amp	G13031	\$0.20
LM317LZ	T092	+1.2 to 37V 100ma	G22103	\$0.49	7812	T0220	+12V 1amp	G13034	\$0.35
317	T0220	+1.2 to 37V 1amp	G22106	\$0.50	78L12	T092	+12V 0.1amp	G13035	\$0.20
317L	T092	+1.2 to 37V 100ma	G22109	\$0.49	MC7815CT	T0220	+15V 1amp	G22125	\$0.39
LM320H5	T05		G13010	\$2.00	LM78L15	T092	+15V 100ma	G22128	\$0.49
LM320T5	T0220		G22110	\$0.89	78M15	T0251A	+15V 500ma	G22130	\$0.49
LM334 Z	T092	adj curr src	G22112	\$0.79	MC7818BT	T0220	+18V 1amp	G22132	\$0.35
LM336 2-2.5	T092	2.5V Voltage Ref	G22113	\$0.79	7824	T0220	+24V 1amp	G22135	\$0.35
LM336 BZ-2.5	T092	2.5V Voltage Ref	G13011	\$0.79	7824	T03	+24V 1amp	G22136	\$1.50
LM337	T0220	-1.2V to -37V 1.5amp	G13012	\$0.79	7905	T0220	-5V 1amp	G13038	\$0.35
LM337LZ	T092	-1.2V to -37V 100ma	G22114	\$0.69	79L05	T092	-5V 0.1amp	G13039	\$0.20
LM340K-5.0	T03	+5V 1amp	G13013	\$1.49	L7905	T0220	-5V 1amp	G22137	\$0.49
LM340T5	T0220	+5V 1amp	G22118	\$0.69	C7905	T0220	-5V 1amp	G22138	\$0.35
LM340T12	T0220	+12V 1amp	G22119	\$0.69	MC79L05ACP	T092	-5V 100ma	G22140	\$0.39
LM340T15	T0220	+15V 1amp	G22120	\$0.69	MC7906CT	T0220	-6V 1amp	G22141	\$0.35
LM341T5	T0220	+5V 500ma	G22121	\$0.69	A7908K	T03	-8V 1amp	G13041	\$1.79
LM342P	T0202AB		G22122	\$0.69	7912	T0220	-12V 1amp	G22143	\$0.35
LM385-1.2	T092*	1.2V Voltage Ref	G22123	\$0.79	7912CK	T03	-12V 1amp	G22144	\$1.50
LM385Z-2.5	T092*	Prec. 2.5V Ref	G13016	\$1.09	7915CK	T03	-15V 1amp	G22145	\$1.50
TL431C	T092	Prog prec Ref	G22124	\$0.39	L7922CV	T0220	-22V 1amp	G22146	\$0.35
LM2931AC-5	T092	+5V 100ma	G22149	\$0.49	7806	T0220	6V 1amp	G15088	\$0.35
7805	T0220	+5V 1amp	G13017	\$0.35	78M12	T0220	+12V 500ma	G15089	\$0.22
78L05	T092	+5V 0.1amp	G13018	\$0.20	7915	T0220	-15V 5V regulator	G15090	\$1.00
7805CK	T03	+5V 1amp	G13021	\$1.49					
7805	T0220	+5V 1amp	G13022	\$0.35					
78L08	T092	+8V 0.1amp	G13024	\$0.20					

## Sensors

### Motorola® MPX2050D On-Chip Temperature Compensated & Calibrated Silicon Pressure Sensor

The MPX2050D device is a 4 lead piezoresistive pressure sensor providing a highly accurate and linear voltage output that is directly proportional to the applied pressure. Features temperature compensation from 0°C to +85°C, unique silicon shear stress strain gauge,  $P_{MAX} = 200\text{Kpa}$ , pressure range 0 - 50 Kpa, Full scale span 38.5 to 41.5 mV, and linearity  $\pm 0.25\%V_{FSS}$ . Used in pump motor controllers, robotics level indicators, pressure switching, etc. These are brand new- fully marked units. Size about .6" dia. x .2" thick excluding leads.

**G13768 \$3.49 ea.**



### TV IR Emitter with Long Cable

These brand new prime assemblies were made for a television manufacturer. They were to control your cable box when you pressed the appropriate button on your TV remote (so you didn't need 2 remotes). These consist of an IR emitter enclosed in a .5" x .3" x .2" sealed see-thru case which has a peel and stick base and a 6 ft. long flexible cable terminating in a male 3.5mm mono plug. In sealed factory bags. Great for thousands of IR control projects.

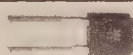
**G12849 \$1.00 ea.**



### NEC PH302 Photodiode

Prime photo detector is perfect for thousands of IR applications. Features 7.2mm (W) x 7.90mm (T) x 2.9mm (D) molded plastic case with full length leads. Peak sensitivity is 940nm. Brand new.

**G15362 5/99¢**



### Large Area Sensitive Photodiode Sensor

Large semiconductor photo diode sensor is .42" sq. x .07" thick and features 6" long flexible insulated black and red leads. Output in sunlight is .5V open circuit voltage and 8mA short circuit current.

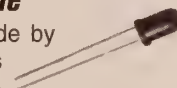
**G13556 \$1.00 ea.**  
**10/\$8.00 • 100/\$75.00**



### OP999 Pin Silicon Photodiode

Narrow receiving angle photodiode by Optek feature a dark blue 5mm lens and long leads. The narrow receiving angle provides excellent on-axis coupling and the photodiode features linear response vs irradiance. Reverse breakdown voltage is 60V, reverse light current range is 6.5  $\mu\text{A}$ -15 $\mu\text{A}$ , forward voltage max is 1.2V. Prime! Blowout price!

**G14668 3/99¢**



### Micro-Measurements Bondable Resistor

These look just like strain gages, however they are used with transducer bridge circuits to compensate for small temperature induced errors and adjust bridge balance output. This particular unit is the N2B-TR-A02-00650 and is rated 65 ohms  $\pm 1.0\%$ . The grid alloy is Balco. Balco offers a TCR of +0.24%/°F over a temperature range of +50° to +150°F. These are brand new and were to be used with the G14827 strain gage we sell. Note: You must solder fine wires (not included) for hookup. Size of unit only 0.20"W x 0.30"L and is microthin.

**G14828 \$1.00 ea.**



### Micro-Measurements Strain Gage

This tiny gage is perfect for making pressure or weight indicating projects. The part# is N2A-06-T001N-350. It features a 350 ohms  $\pm 0.15\%$  resistance at 24°C. Size is about 0.17"W x 0.22"L. Gage is microthin and has no leads, so you must solder several fine wires (not included). These are prime parts - Great for experimenting with strain gages. Hurry, we sold out very fast the last time we offered strain gages.

**G14827 \$2.49 ea.**



### PIR Sensor?

Large area Silicon sensor with built in transistor preamplifier stage. We think this was made for body heat sensing PIR people detectors. The part # is F010H. If you pop the back off from one of these you can see a SMD transistor, a SMD resistor and the back side of the silicon sensor, so you should be able to figure out the 3 leads of this sensor, however we don't have the specs, hookup or any other info - you figure it out. These are brand new prime worth many times our price. Size 5/16" square.

**G9270 \$1.00 ea. • 10/\$8.00 • 100/\$75.00**





## BPW33 Silicon Photodiode

Compact silicon photodiode is almost like a tiny silicon solar cell in a plastic 2 pin case. Responds from 350nm to 1100nm. Has low reverse current (Typ. 20pA). Max sensitivity is at 800nm. Open circuit voltage is 440mV. Short circuit current is 72µA. Size about .16" W x .22" L x .07" Thick. Prime.

**G13644 4/\$1.00**

## Magnetic Sensitive Hall Effect Sensor

Tiny, unique, 3 lead semiconductor device can be connected to a simple 1 transistor circuit to operate a LED or close relay contacts when a magnet is brought near it. When the magnet is flipped over (change poles) and brought near the sensor-the relay contacts will open or the LED will go off. These are brand new and we include in each package of Hall Effect sensors a schematic of the hookup of a one transistor driven circuit described above. The Hall Effect sensors are about half the size of a T092 transistor and will have several different markings, however they are all basically the same part.

**G1994 4/\$2.00**

## Unusual "POD" Sensor

Unusual item consists of a tombstone shaped .67"W x .73"H x .50" Deep solid aluminum block with 3 holes. It almost looks like a wierd robot head. The 2 tiny holes we believe have photodiodes and the large one looks like an infrared emitter- We aren't sure. The semiconductors are mounted to a small PC board attached to the "POD" sensor. Sorry, no data available- sold "AS IS". Very unique

**G15211 \$1.00 ea.**

## Tiny Gold Plated Sensor

We are not sure of the specs on this but it is a gold plated case optical sensor with the window on top. It has 2 long gold plated leads and the case is 4mm Dia.

**G1838 \$1.00 ea.**

## Large Photo Diode Optical Sensor

Type S1223-01 by Vactec features gold plated leads and a T05 size metal case with a top window. Sorry we do not have any specs or info, but these are prime new units. Output in sunlight is .56V. Size of the active area is about .17" sq.

**G13585 \$1.00 ea. • 100/\$90.00**

## Omron SX460-P15 Photomicrosensor (Slot Opto Interrupter)

Features an IR LED and a photo-sensitive IC to produce output signals compatible with CMOS and TTL circuits. Has connector that mates with Amps EL series connector. These units are commonly used in motor encoders. Brand new!

**G14268 4/\$1.00**

**G14268A 100/\$22.00**

## Robotic Mechanical Sensor

Consists of 1 1/2" long plastic lever with a magnet attached to it. When the lever is fully extended (by gravity) the built-in reed switch contacts close. When the lever is pushed up slightly, the contacts open. Can be used on robotic applications to detect the edge of a table. Reed switch has 2 male header pins for connection. Size about 1.36" x .94" x .4" (excluding lever). Made by Hamlin.

**G14606 \$1.00 ea.**

# SMD/Surface Mount Items

## Giant SMD Assortment

Our largest assortment of tiny SMD parts. You'll find prime LEDs, ceramic capacitors, resistors, transistors, diodes, tantalum capacitors, inductors, etc. in every package. Great way to stock up your parts bins at less than 1 1/2¢ a part! Over 1,000 pieces in a 2" x 3" zip close bag! NOTE: Many SMD parts are so tiny that the manufacturer does not mark them, however, every part in this assortment is 100% prime and perfect. Do a little detective work and save over a hundred dollars!

**G7128 \$15.00**

## Basic SMD Learn to Solder Kit

Contains 1 small SMD single sided circuit board which is etched (ready for component mounting), and over 50 various SMD components: ICs, resistors, capacitors. There isn't room to mount all the parts, but we give you extra ones in case you ruin them. The circuit is totally nonfunctional, but it is a tremendous way to introduce yourself to this exciting new technology which industry all over the world is adopting. Size of board about 1 1/2" x 3/4".

**G3113 \$3.00**

## Deluxe SMD Learn to Solder Kit

This is similar to our Basic SMD Learn to Solder Kit, but this is much more sophisticated. Kit comes with an actual complex double sided miniature cellular phone PC board (etched and plated-ready for component mounting), and over 150 surface mount parts including ICs, transistors, resistors and capacitors. The circuit is of course, totally nonfunctional and is a tremendous way to sharpen your skills beyond the basic kit. NOTE: this kit contains fine pitch multiple lead SMD ICs and you should have a very fine tip soldering iron and magnifying glass to work on it. Also NOTE: the board will have pads to mount some components that are not in the kit. You may not be able to solder some of the components because of their size, but just the educational value of this kit is worth the price. Great for studying the latest type of technology that is becoming the new standard. Size of board about 2 1/4" x 4 3/4".

**G3114 \$7.00**

# Sockets

## Augat Gold Component Carriers

Handy gold plated component carriers are the size of a dip socket but feature gold plated posts on top that you can solder components onto. We have 2 sizes.

**G14274 14 pin \$1.29 ea.**

**G14275 16 pin \$1.49 ea.**

## Tiny Pin Socket for LEDs, Transistors

Make any type of tight precision fitting socket for LEDs or transistors using these tiny machine type socket pins. Size only .138" Tall x .037" dia. with a .05" Dia. lip. Simply solder into hole on PC board and insert LED or transistor lead into it. Very tight grip, however you can pull your LED or transistor out if you wish to replace it. Very useful. Illustration not to scale.

**G13666 20/\$1.00**

## IC Socket Blowout

Prime low profile IC sockets made by Augat, Burndy, Sealectro, etc. These are brand new perfect with tin plated contacts. Sold by the full tube only (no partial tube sales). NOTE: We show the minimum quantity in each tube- some brands have more- Sorry, no brand selection available.

Pins	Quant.	Stock#
20	25	G7374
24*	17	G7377
24	17	G7378
28	14	G7379

\*Narrow Type Socket

**your choice**  
**\$1.50/Tube**

(Sold by the tube only)

## Machine Pin LED Socket

Hard to find item connects any 2 lead LED firmly to a PC board, yet allows you to remove the LED easily. Size about 0.37" Dia x 0.17" high (excluding pins)

**G14094 10/\$1.00 ea.**

## IC Sockets

Prime, brand new.

Pins	Stock#	Price
8 Pin	G1233	5/\$1.00
14 Pin	G1234	5/\$1.00
16 Pin	G1235	4/\$1.00

## 16 Pin IC Machine Socket with Built In De-Coupling Capacitor

Handy 16 pin machine socket is the same size as any low profile IC socket but it already has a .1µf 50V de-coupling axial mono capacitor internally connected between pins 7 and 16 (power & ground in many ICs). This saves PC board space and does not effect the mounting or use of the socket!

**G15183 4/\$1.00**

## 2 Pin LED Socket

Prime low profile 2 pin socket for LEDs, CDS cells, etc.

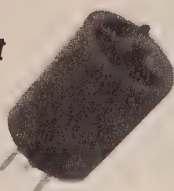
**G15208 5/\$1.00**



## Tall Heavy Duty Precision Transistor Socket

This is the socket to use if you are building a transistor tester or item that requires you to change out T018, T05, and T092 transistors. It is about 0.55" tall excluding the three sturdy PC pins on bottom. Black color, very precision, heavy duty socket.

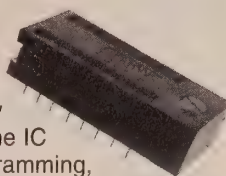
**G14631 4/\$1.00**



## 3M/Textool 16 Pin Ziff Socket

Handy zero insertion force socket operates by turning a small built in slot on the IC socket. In one position the IC can be removed without any force - In the other position the IC is held firm for testing, programming, etc. Special blowout price!

**G14058 99¢ ea.**



## Machine Pin IC Sockets

Prime low profile solder terminal sockets with high quality machine pins.



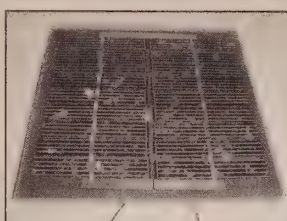
Pins	Stock#	Price
14 Pin	G3913	3/\$1.25
16 Pin	G3914	3/\$1.30
24 Pin	G3916	3/\$1.80



## Solar Products

### Blue Polycrystalline Silicon Solar Panels

We have two different sizes of these high quality solar panels consisting of polycrystalline silicon solar cells connected in series. Each features a weatherproof glass front and weatherproof base surface. All have flexible wire leads for power. Voltage and current are  $\pm 10\%$  tolerance.



Panel Size	VOC	ISC	Stock #	Price
2 11/16" W x 4 1/2" H	4V	100AMP	G4481	\$6.95 ea.
5" W x 5" H	9.6V	100AMP	G4482	\$9.95 ea.

### Silicon 250mA Solar Cell-(Pkg of 4)

Rectangular polycrystalline 2 1/4" L x 0.75" Tall solar cell puts out about 250mA and 0.5V (open circuit voltage).

We have thousands of these and no time to test them so we are selling a package of 4 for \$1.00. Almost all of these will be good, however you may get a bad one in the package. They may have slight chips on the edges, however this does not affect the output.

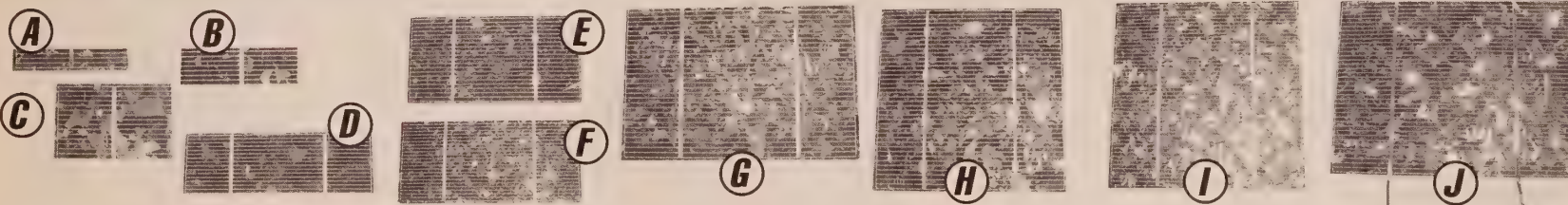
**G14739 \$1.00**



### High Output Polycrystalline Silicon Solar Cells

We have an in depth stock and variety of these high power silicon solar cells ready to convert sunshine into electricity to power all types of electronic projects. These cells are lighter and more fragile than the single crystal silicon solar cells we sell, however if you are going to mount them on a rigid surface such as plastic, balsa wood, glass, etc., they are your best choice for powering solar power model race cars, boats, radios, chargers, robots, etc. All cells will have an open circuit output voltage of between .42V and .52V and will have the approximate short circuit current shown. Cells can be connected in series for greater voltage and in parallel for greater current. Unless otherwise noted all solar cells will need thin, flexible wire leads soldered to them (instructions are included with your purchase). Note: You can cut these cells into smaller pieces using a carbide scribe (available from Sears) if you desire. Each piece will then put out .42 to .52V and the current related to the size of the piece. In this way, you can make higher voltage panels (connect the pieces in series) for use in compact spaces. This will result in monetary savings also.

Type	Shape	Size	Output	Stock#	Price	Pkg of 18
A	Rectangular	2 1/4" x 7/16"	150ma.	G4529	\$2.00	\$32.00
B	Rectangular	2 3/16" x 11/16"	275ma.	G4530	\$2.49	\$40.00
C	Rectangular	2 1/4" x 1 1/2"	550ma.	G4531	\$4.00	\$64.00
D	Rectangular	4 1/2" x 1 1/2"	950ma.	G4532	\$5.95	\$96.00
E	Rectangular (slight edge chips)	4" x 2"	980ma.	G4533	\$6.50	\$105.00
F	Rectangular	4 1/2" x 2 1/4"	>1amp.	G4534	\$7.00	\$112.00
G	Rectangular	4 1/2" x 3"	1.1amp.	G4535	\$7.95	\$128.00
H	Square	4" x 4"	1.2amp.	G4536	\$8.49	\$136.00
I	Square	4 1/2" x 4 1/2"	>1.2amp.	G4537	\$8.95	\$144.00
J	Rectangular* (*has tabs)	6" x 4 1/2"	>1.3amp.	G4538	\$10.00	\$159.00



### Amorphous Solar Cell Assortment

Assortment of various size amorphous silicon solar cells. You get 4 cells each capable of delivering high current to power motors etc. from the sun. Each cell no matter how large puts out .5V open circuit voltage, however the size determines the amount of short circuit current. In this assortment it will vary from 150ma for the smallest, up to 950ma for the largest. The smallest cell is 2 1/4" x 7/16" and the largest is 4 1/2" x 1 1/2". May have slight edge chips. Complete with soldering instructions. These would cost over \$14 if you purchased them individually.

**G2242 \$8.95**



### High Output Single Crystal Silicon Solar Cell Assortment

Assortment of 4 different single crystal solar cells that are easy to solder to. Great for experimenting, powering motors or radios from the sun. Each cell puts out about .5V open circuit voltage but the short circuit current will vary from about 500ma up to over 1amp. Sizes range from 2 1/4" dia up to 3 1/2" dia. Includes rectangular and half moon shapes. These would cost over \$25 if purchased individually.

**G2243 \$12.95**





## 3" x 5 7/8" Solar Panel

Here's an easy way to power small transistor radios, electronic projects, etc. These produce an open circuit voltage of 10 to 11VDC and 70-90ma short circuit current. Features copper mesh pads for soldering leads to.

**G14314 \$7.95 ea.**

## 10V, 350 milliamp Solar Panel

Large glass solar panel features color coded wire leads for connection. Size about 12" x 6". These are used but in excellent condition.

**G13911 \$19.95 ea.**

## Compact High Power Solar Panel

Compact folding type solar panel with polycrystalline silicon solar cells puts out an incredible 22volts open circuit voltage and .9amps short circuit current. These fold on hinges to a closed size of 9" x 13" x .8". The size open is about 18" x 13". Rugged yet lightweight-perfect for portable use when a higher power is needed. These feature female banana jacks (built in) for power takeoff and "hook & loop" latch. These look new but may have a few slight scratches on the outer case from bulk packaging. Flat black case color. Weighs only 1.76 lbs.

**G13473 \$179.99 ea.**

## Powerful 6" x 12" 9V, 0.3 Amp Solar Panel

Powerful glass solar panel features an open circuit voltage of at least 9V and a short circuit current of at least 0.3Amp in full sunlight. This comes with a piece of copper mesh stick-on tape and instructions to allow you to solder wires to it. Brand new.

**G14791 \$14.95 ea.**

## Round 2 1/4" Silicon Solar Cell

Round single crystal silicon cell features solder plated bars on top and solder plated base for ease of soldering. These were originally made to scribe with a diamond tip scribe to break them in half, however this was not done so you have a split top bar as shown. The output of the whole cell is .5V open circuit voltage and .250Amp or greater short circuit current. May have slight edge chips that does not effect performance.

**G15226 \$2.99 ea.**

## 2.5V 500ma Marine Solar Module



We were told these were made for and installed onto Coast Guard boats in Canada. It's a waterproof, sealed in heavy duty plastic, panel that can be bolted down directly on a wooden, fiberglass or other insulated deck or surface. Has 2 countersunk holes for mounting and 2 heavy duty screw terminals on back for power take off. Consists of 5 silicon single crystal high output solar cells in series. Made by Solar Power Corporation Model No. 1002. Worth over \$100 each. May have slight scratches on panel. Size: 13 1/2" x 2 15/16" x 5/16" (excluding terminals).

**G4505 \$24.95 ea.**

## Giant Polycrystalline Solar Cells with Edge Chip

Giant polycrystalline silicon solar cells produce very high output currents and 0.5V open circuit voltage in direct sunlight. These have chips on their edges but it does not effect the output current listed. Because of these "chips" we are selling these high output useful cells for 70% off their usual price (values up to \$10.00 each). At this low price you can buy enough to make a high power panel providing years of free electricity. Note: The G13774 has at least one tab already attached to the top surface.

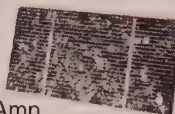
Size	Output	Stock#	Price
4" x 4"	1.20 Amp	G13773	\$2.49 ea.
6" x 4 1/2"	1.60 Amp	G13774	\$2.99 ea.



## 1Amp Silicon Solar Cell

Large 4.5"W x 1.5" Tall polycrystalline silicon solar cell puts out 0.5V open circuit voltage and 1Amp short circuit current. We test every one of these to make sure that the output is at least 1Amp. These may have a slight edge chip on the corners, however this will not affect the output! Make incredibly compact yet powerful solar panels with these.

**G14741 \$1.49 ea.**



## 4" Round Silicon Solar Cell with Tabs

These nice 4" single crystal cells already have tabs attached to make the job of constructing panels very easy. They have flat sides as shown and put out about 1.2Amp short circuit current and 0.5V open circuit voltage. Connect in series to add voltage or parallel to increase current. Limited quantity of this powerful solar cell. Great for collecting free power from the sun.

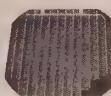
**G13164 \$5.95 ea.**



## Square Silicon Powerful Solar Cell 800ma 0.5V

These are easy to solder to high efficient silicon solar cells that are 2.5" square. This square shape enables you to make much more compact high power panels (connect cells in series for higher voltage or parallel for higher current). These put out 800ma short circuit current and 0.5 volt open circuit voltage. These are single crystal types which are much easier to use than the polycrystalline types. We are selling them at a blowout price because they have partially missing fine grid lines (does not effect rated output). Hurry these will sell fast!

**G13153 \$3.95 ea.**



## Powerful Square 3 3/8" Single Crystal Solar Cell

Single crystal silicon cell features an open circuit voltage of .5V and a short circuit current of over 1Amp. These are simple to connect your leads to as they have a standard solder coated top connection bar and base. Connect several in a series to increase voltage.

**G15236 \$3.99 ea.**



## 1.1" x 2.25" 0.4Amp Silicon Solar Cell

This polycrystalline solar cell puts out 0.5V open circuit voltage and 0.4 amp short circuit current. This high quality solar cell is great for making solar panels or operating small DC motors. These may have slight edge chips- Does not affect performance.

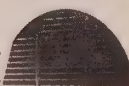
**G15301 2/99¢**



## Silicon 4" half moon Solar Cell

This cell puts out about 800mA short circuit current and 0.5V open circuit voltage. These are solder plated and it's easy to solder wires to. Make higher voltage panels by wiring these in series. Size about 3.9" on longest side. Although still fragile, this type of cell is much sturdier than polycrystalline types.

**G14752 \$1.49 ea.**



## Giant 4 3/8" x 2 1/4" Solar Cell w/ Edge Chips

Giant silicon solar cell puts out over 1amp short circuit current and .5V open circuit voltage in direct sunlight. These have chips on their edges but it does not effect the output. We sell this same solar cell for \$7.00 without chips.

**G13744 \$1.99 ea.**



## Broken Solar Cells

Silicon solar cells can still produce lots of power even when they are in odd shapes from being broken. We are offering a great selection of these broken cells. Most will be able to individually produce enough energy to drive our solar motor or connect several together to make "mini solar panels" capable of charging nicad batteries, or operating a radio, a fan, display, small solar race car, etc. We give you a 3 9/16" x 2 9/16" x 3/8" plastic box full of them (about 20 pieces). If they were not broken, they would be equivalent to a solar cell with an area of around 7" x 7"! We even include instructions on soldering.

**G4496 \$3.98**



## Giant Box of Broken Solar Cells

This 3 9/16" x 2 9/16" x 1" box contains around 3 times the amount in the above box. Includes soldering instructions.

**G4497 \$9.95**

## Special Delux High Power Solar Cell

Compact rectangular silicon single crystal solar cell generates .5V open circuit voltage and about .600Amp. The size is only 1.3"W x 2.88"L. The very special feature of this solar cell is that you make both solder connections simply on the back surface (+ & -). It is fully solder plated making it very easy to solder to.

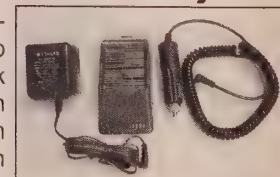
**G15229 \$4.99 ea.**



## Solar Life Solar Powered Battery

The deluxe power system from features a flip phone battery back which has a built in high efficiency silicon solar panel and built in solar regulator to harness the free energy from the sun. The battery pack fits the Motorola Micro Tac portable flip phones, however it can also be used to power all sorts of battery powered items if you adapt (or connect) the power terminals to your device. Battery has 5 built in AA size Nicads and comes with an included AC rapid charger which plugs directly into the battery pack to charge it when sunlight isn't available plus it even has a cigarette lighter rapid charger. Brand new in retail blister pack.

**G1776 \$19.95 ea.**





### Mini Glass Beam Solar Panel

Great for making powerful Beam Robots, this lightweight glass cell puts out 3.5VDC open circuit voltage and 15ma short circuit current in sunlight. Size is only 25mm x 53mm. Weighs about 5 grams (.176 oz). Has blocking diode attached to prevent discharge of your battery or capacitor when light is not striking cell (can be bypassed if desired). Has 2 insulated wire leads for hookup.

**G4400 \$2.49 ea.**

### Solar Keychain Light

You'll never be caught without a light with the Solar Keychain Light! Great for campers, hikers, autos, remote cabins. Just place this small self contained 2 3/16" x 1 3/8" x 5/8" keychain in the sun to recharge its powerful built in NICAD. In the dark when you need a light, just press the button on the keychain and the focused magnifying lens bulb emits a bright spot of white light.

**G4404 \$5.95 ea.**

### Glass 4 x 6" Solar Panel with Leads 10VDC 125ma

High quality glass solar panel features 30" long red and black leads for power take off. Solid reliable construction ready to produce power from the Sun. Open circuit voltage: 10VDC; short circuit current: 125ma.

**G2146 \$8.95 ea.**

### Powerful 10V .150AMP 6" x 6" Solar Panel

Amorphous silicon resin glass solar panel. This high quality panel comes with flexible color coded leads to connect up to your electronic device, pump or rechargeable battery. Perfect for charging 6V nicad or lead acid batteries (use a diode to prevent discharge at night). Open circuit voltage 10V, short circuit current .150A (over 1.5 watts)!

**G4528 \$9.95 ea. • 2/\$19.00 • 10/\$90.00**

### 12V 50ma Solar Panel

Great for charging batteries, powering radios and all types of small electronic devices. This 4 1/8" x 5 3/4" solar panel has silicon solar cells connected in series and mounted under a plastic lens. The entire panel is fully assembled and ready to use. Comes with plug in power cable and reflector panels to increase output current. New and ready to provide years of free solar power.

**G4501 \$19.95 ea.**

### Special Dual Panel

Amorphous glass panel is 12" L x 2 3/16" W x .12" Thick and features 2 separate 9V 70ma panels on one piece of glass. Can be connected in series or parallel or use a glass cutter to make 2 panels. Comes with directions for soldering your wires to it.

**G4560 \$9.00 ea.**

## Soldering Items

### 25 Watt Pencil Soldering Iron

Comfortable grip pencil type soldering iron. Build kits, repair equipment etc. with this handy solder iron. Features non polarized standard two prong plug for 120VAC. Brand new in retail packaging.

**G1984 \$3.95 ea.**

### Handy Solder Wick

Great for desoldering components from a PC board. Simply lay end of solder wick braid on top of PC solder pad and heat with solder iron. The solder "wicks up" into the braid so that you can easily remove the component. Brand new 5 ft long in a handy dispenser.

**G1587 \$1.29 ea.**

## Solenoids

### Linear Solenoid

Heavy duty solenoid made by Guardian Electric. Tremendous pull heavy duty type compact design. Unknown rating but works from 12VDC up to 36 VDC. Size about 1 3/4" x 7/8". Plunger length 1 3/4" slotted end with hole. Prime.

**G5628 \$3.50 ea.**

### Miniature Electronic Firing Mechanism

This special solenoid was made for the miniature print head by Alps that we sell. It is very unique! When the head is pushed into the locked position, it stays in that position until power (we used a 9V battery) is applied. The instant power is applied the firing mechanism springs out with a powerful force (enough to shoot a marble etc.). Great for making miniature combat robots.

**G2093 \$3.95 ea.**

## Speakers

### 4 1/8" x 6 1/8" 8Ω Audio Speaker

Great for stereos, small guitar amps, radios, cars! This 8Ω speaker features a metal frame and great sound. Although the rating isn't marked, it should be able to handle up to 10 watts.

**G14044 \$1.49 ea. • 2/\$2.50**

### Deep Tone Miniature 8Ω Thin Speaker

For its size, this small mylar cone speaker has a strong magnet and produces a very good sound for its size. Size 1.1" Dia. (excluding ears) x 0.2" Thin. This is the best miniature speaker we have heard! Please note that these speakers have a slightly crushed/deformed cone from the manufacturing process, however this defect is only cosmetic and does not affect the sound.

**G13699 \$1.49 ea.**

### Super Thin 1.6" Square Speaker

Thin mylar cone 1.6" square speaker is only 0.15" Thick. Rated 400mw output power. Impedance is 8Ω.

**G14086 2/\$1.00**

### Delco Tweeter

Made for use in autos, this speaker is about 1.65" in diameter, excluding the 2 mounting ears. Has ceramic magnet and built-in crossover cap. Impedance is 6Ω. New!

**G14430 99¢ ea.**

### Super Thin 2 1/4" 4Ω Speaker

Nice quality 4Ω, 2 1/4" speaker features solder eyelets for connection, a metal frame, a paper cone. This speaker is only 0.4" thick. Blowout Price!

**G13934 \$1.20 ea.**

### Delco Auto Speaker

Made for use in many cars, this speaker features a built in 220uF 25V bipolar capacitor to allow a certain frequency range to pass into the speaker (can be bypassed if desired). Features a 2 3/8" ceramic magnet and a 4" x 6" frame. Impedance 4Ω. Brand new with dust cover. Sorry, power rating unknown.

**G1549 \$2.00 ea.**

### Flat Full Volume Speaker

Flat 8Ω speaker features a power rating of 400MW. Size only 1.58" square x .15" Thick. Has solder eyelets for connection.

**G13674 2/\$1.00**

**G13674A 100 for \$45.00**

### Mylar Cone Speaker

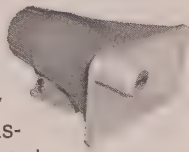
Small good sound quality mylar cone speaker. Size: 1 7/16" Dia x 3/16" thick. Each has long flexible color coded leads and a peel and stick mount on back.

**G9382 2/\$1.00**



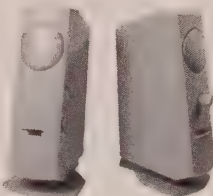
## Paging Horn

High power heavy duty paging horn features 30 watt power handling capacity and good frequency response. Made by Espion. White weatherproof plastic case. Size of horn is about 4 1/2"W x 8"L x 9" D. Perfect for alarm systems or applications that require high power and weather-proof design, brand new-Prime!  
**G5669 \$19.95 ea.**



## Sony® Vaio PCVA-SP1 Amplified Speakers

Ultra compact nice sounding speakers for laptops or desktop computers. Size about 6.35"H x 1.88"W x 3.8" Deep. These very stylish 3W, 4Ω speakers feature a stereo 3.5mm plug, a volume/power on/off switch and a 12VDC power input jack. These are brand new in the factory box, however we did not get the 12VDC adapter so we are selling them at a blowout price. By opening the case (a couple of screws) we soldered in a different power jack that matched our 12VDC adapter, however, it's up to you to supply the adapter and jack if it is your desire to do this (we offer no info). You'll be impressed by the sound quality from the built in amplifier, and if you already have a Sony 12VDC adapter you'll be ready to go.  
**G14273 \$9.95/pair**



## Tiny Swiss Watch Micro Speaker

Very efficient speaker is only .35" Dia. x .21" tall yet it can produce output sound levels up to 90dB. Requires driver circuit. Input resistance is 40Ω and resonant frequency is 2700Hz. Precision made.  
**G12774 2/\$1.00**



## Citizen Electric Micro Speaker Sound Generator

Type CHB-04H features high sound pressure output with low current consumption and minimum resonance frequency is low (2,500HZ). These surface mount speakers are found in cell phones and various compact high tech gadgets. Features 8.5Ω impedance, and an average sound pressure level of 93dB. Rated voltage is 5VDC and average maximum rated current is 80ma. Overall size is 8.5mm sq. x 4mm tall. Requires drive circuitry. Brand new on tape and reel made for Motorola.



**G13780 10/\$1.00**  
**G13780A Factory reel of 1,000/\$60.00**

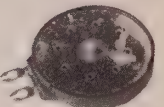
## AT-01 Transducer by Projects Unlimited

Similar to a small speaker, this audio transducer can handle up to 8V and has a resonant frequency of 2048Hz. Sound pressure level is 85dBA and max. current is 40mA. Can be driven by almost any audio frequency. New with peel off tape covering output hole. Size: 0.63" dia. x 0.58" H (excluding pins).  
**G14333 \$2.49 ea.**



## Flat 0.83" Dia. Speaker

Small enclosed speaker features an impedance of about 28Ω. Size about 0.83" Dia. x 0.15" thick. The chrome on the front of these is slightly discolored but this does not affect the performance (cosmetic only). New and at a blowout price!  
**G14654 10/99¢**



## Miniature Enclosed Speaker

Made by KYOCERA (part # PHPC0047), these are only 13/16" in diameter and produce a very clear sound. Made for cell phone use and they are only 1/8" thick. Impedance is a little over 100Ω.



**G9423 2/\$1.00**  
**G9423A 100/\$45.00**

## Miniature Speakers

Popular size mini speakers for new construction or replacement. 8Ω IMP. Size 1/34". Cool little speaker!  
**G7898 \$1.00**



## 5" Super Sub Woofers

(Pincussion Mount) Heavy duty in a very compact size! Features 1 1/4" aluminum voice coil, massive 20 ounce ceramic magnet, 4Ω impedance, 50 watt RMS (75Watt peak) power. Response to 400 HZ vented backplate, air suspension edge and dust screen.  
**G3212 \$21.95 ea.**



## Car Audio Speaker System a/d/s/ Crossovers

These car audio speaker system crossovers were made for expensive a/d/s/ speaker systems. You'll find rave reviews about the legendary sound of a/d/s/ systems listed on the WEB. Each crossover is brand new in its attractive black case. Each has a gold plated screw down terminal block to attach your leads and all crossovers have Hi, Mid, Lo internal jumper terminals except for the large ones which have internal selection switches. These just arrived and we have not had a chance to find the specs so we are selling them at a blowout price! We do know the 335i(s) could handle 100Watts. Terminals are listed in ( ).

Type	Size	Stock #	Price
Small (± in, ± out)	2.8" x 3.1" x 1.6"	<b>G13196</b>	<b>\$4.00</b>
Med (± in, ± Low, ± Hi)	3.5" x 3.9" x 1.6"	<b>G13200</b>	<b>\$7.00</b>
Large (335IS) (± in, ± in, ± Low, ± Hi)	3.5" x 5.2" x 1.6"	<b>G13208</b>	<b>\$12.00</b>



## Sound Modules

### Miniature Sound Boxes

Similar to above but only 1.9" x 1.4" x 3/4". The "turkey" is just the realistic sound of a crazed turkey (not human voice).



"Goble Goble Goble" (sound of crazed turkey)  
**G13680 99¢ ea. • 10/\$5.00**

"Happy Halloween Ha Ha Ha" (Scarry voice)  
**G13681 99¢ ea. • 10/\$5.00**

### Small Sound Modules for Greeting Cards

We have the following sound modules that produce the music or voices as listed. Each has a built in flat piezo speaker and batteries all mounted on a peel and stick surface. These are ready to mount in any greeting card you wish (instructions are included). Sound plays each time its activated!



Classical tune (we believe its Beethoven)  
**G13682 79¢ ea.**

High performance car accelerating and shifting  
**G13684 79¢ ea.**

"Whistle—Whistle" (guy trying to impress his girlfriend)  
**G13685 79¢ ea.**

### Super Music Maker Modules

Small music modules made for greeting cards. These are complete ready to go and feature built in batteries and piezo. When the tab is pulled, the device plays the tune one time, then resets and shuts off for the next time the tab is pulled. New, with peel & stick paper mounting base plus a simple instruction sheet for making any greeting card a "musical card". Can also be used for many other musical tune applications. Approx. size of paper base: 3 1/2" x 1 1/2".



### Larger Sound Modules

These are slightly larger than the modules above, and are complete ready to go with built in batteries and piezo or speaker. Each plays a sound or voice when tab is pulled then resets. Size of peel & stick paper base is about 4 1/2" x 2".



Tune Played	Stock#	Price
Classical Tune	<b>G14120</b>	<b>2/\$1.00</b>
Jungle Monkeys	<b>G14121</b>	<b>2/\$1.00</b>
Take Me Out to the Ball Game	<b>G14122</b>	<b>2/\$1.00</b>
Music Box Dancer	<b>G14123</b>	<b>2/\$1.00</b>
You Are My Sunshine	<b>G14124</b>	<b>2/\$1.00</b>
Love Story	<b>G14125</b>	<b>2/\$1.00</b>
Lovers Concerto	<b>G14126</b>	<b>2/\$1.00</b>
Greensleeves	<b>G14127</b>	<b>2/\$1.00</b>
Silent Night	<b>G14128</b>	<b>2/\$1.00</b>
Feliz Navidad	<b>G14129</b>	<b>2/\$1.00</b>
Jingle Bells	<b>G14130</b>	<b>2/\$1.00</b>
12 Days of Christmas	<b>G14131</b>	<b>2/\$1.00</b>
Ave Maria	<b>G14132</b>	<b>2/\$1.00</b>

### SOUND FX MODULES!

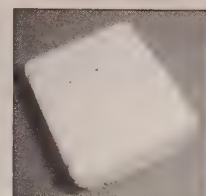
Tune Played	Stock#	Price
Loud Snoring	<b>G14133</b>	<b>2/\$1.00</b>
Whistle, Whistle	<b>G14134</b>	<b>2/\$1.00</b>
Laughter	<b>G14135</b>	<b>2/\$1.00</b>
Car Screeching	<b>G14136</b>	<b>2/\$1.00</b>
Car Accelerating	<b>G14137</b>	<b>2/\$1.00</b>
Coughing	<b>G14138</b>	<b>2/\$1.00</b>



## Small Voice Boxes

Small self contained voice boxes say a phrase in a mans voice each time you squeeze them. Size of box is only 2" x 1 5/8" x 3/4". Features a built in speaker, a tiny circuit board and built in batteries. Brand new white plastic box. These arrived in bulk cartons marked "Hallmark". We have 2 different types with the following phrases.

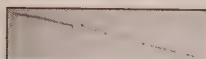
"Ho Ho Ho Merry Christmas" (Santa voice)	G13543	99¢ ea.	• 10/\$5.00
"Gurr I'm Wild About You" (jungle guy)	G13679	99¢ ea.	• 10/\$5.00



## Xenon Strobe Tube

Approx. 1 3/16" L x 5/32" Dia.

G7852 \$1.00 ea. • 100/\$25.00  
1,000/\$220.00



## Bright Xenon Strobe Tube

Micro xenon strobe tube features a brilliant flash. Requires about 200V cathode to anode voltage and any 4KV trigger coil.

G13722 \$1.00 ea.

## Super Xenon Strobe Tube Assortment

Prime new xenon strobe tubes in various sizes. Includes straight type and horse shoe type tubes. Great for use in strobe lights, camera flash units, slave strobes, etc. All tubes will work with any trigger coil we sell.

G1040 5/\$6.95

## Mini 4kV Trigger Coil

Designed to fire Xenon strobe tubes, these are perfect for any strobe tube we sell. Size only 6mm (Dia.) x 12mm (L). Has three leads. Brand new.

G9879 \$1.00 ea.

## 4KV Trigger Coil

Compact fully enclosed 4 lead trigger coil to fire xenon strobe tubes. Size only .47" Tall x .31" sq. Has 3 pins on bottom and high voltage pin on top.

G13720 99¢ ea.

## Brilliant Strobe Tube & Reflector

Small size xenon strobe tube with reflector and lens produces a brilliant light output. Size only 1"L x 5/8"W x 5/8"D. With wire leads for the anode and cathode plus a tab for the trigger input.

G8178 \$1.00 ea.



## Mini Strobe Tube & Reflector

Bright Xenon strobe tube and reflector is about .96" L x .89" W x .74" D. Brand new with 2 copper tabs for anode & cathode and 1 aluminum tab for trigger lead.

G13603 \$1.00 ea. • 10/\$8.00  
100/\$50.00 • 1000/\$450.00



## Chrome Mylar Film

5" x 8" piece of heavy duty highly reflective mylar film for making strobe reflectors. Unique item!

G1242 \$1.00 ea.



## High Voltage Board

These were to be part of a disposable camera and have a tiny inverter transformer, driver transistor, 4KV trigger coil and neon lamp. We have no info on these except that we think they are new. The board does not have a photoflash cap or strobe tube so we are selling it cheap!

G13825 3/\$1.00



## Micro Strobe Brains

Tiny circuit board features micro size inverter transformer, IC and the smallest 4KV trigger coil that we have ever seen (it's only 5mm square). These are brand new and were made for a camera strobe, however they are not complete. They have various SMD parts on the bottom of the board. The best reason to buy this is to remove the micro size 4KV trigger coil and inverter transformer (if you are making your own micro size strobe). Sorry, no schematic or hookup data on the board or any of its components.

G4584A \$1.00 ea.

Factory sealed package of 8 boards /\$5.00



## Straight Xenon Strobe Tubes

Xenon strobe tubes that produce brilliant flashes of white light. Each requires 250V minimum between the anode and cathode and any 4kV trigger coil for firing.



Stock#	Size	Watts	Price
G5109	1.4" L x .12" D	10	\$1.00
G5110	1.3" L x .12" D	12	\$1.25

## Extremely Bright Micro Xenon Tube

This is the most brilliant intense Xenon strobe tube for its size that we have ever seen. It's a 0.8" long tube mounted in a 0.4" x 1" plastic lens with chrome reflector. It features 3 color coded flexible leads and is brand new. Perfect for making wing strobes on small RC flying planes. These are amazing! Requires about 180V anode to cathode and any 4KV trigger coil.

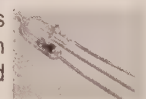
G4584 \$3.00 ea.



## Horseshoe Xenon Strobe Tubes

These produce more powerful flashes of light than the straight tubes. Each works with any 4kV trigger coil and each requires a minimum of 300V anode to cathode to flash. Size 1.25" T. 24 Watts

G1034 \$4.50



## Xenon Strobe Tube & Trigger Coil

Produce brilliant flashes of brilliant white light using these and a handful of components to make a variable speed strobe light. We give you a high quality 1.5"H x 0.66"W xenon strobe tube, a 4KV 4 lead trigger coil and schematic of a 120VAC strobe light that can be built using a few additional components! Brand new.

G13923 \$4.95/set



# Switches-Pushbutton

## SPST Push On/Off Switch

Easy to use push on/push off switch mounts in a .45" Dia. hole with nut and washer supplied. Even though it panel mounts in a round hole, the top of the switch is square with a .43" square opaque plastic pushbutton. Contacts are rated 3Amp 250VAC. Has solder eyelets. We have 3 colors of tops available—all with black switch bodies.



Red	G12788	2/\$1.00
Yellow	G12789	2/\$1.00
Green	G12790	2/\$1.00

## Large "Snap In" 16Amp 250VAC Red Pushbutton Switch

Simple to mount momentary action pushbutton switch features a large red pushbutton and SPST 16 amp contacts that close only as long as the button is pressed. Button has a very strong spring return so it can handle heavy duty usage. This switch snaps into a 1" hole in your panel.

G14780 \$1.00 ea.



## Heavy Duty Large Arcade Pushbutton Switch

This switch features a bright red extra large button. It is typical of types found in standup arcade games. Mounts in a 1.1" hole and features a top flange of 1.32" Dia. Overall length of switch assembly is about 2.4"L. The button presses on a momentary action long life snap action switch with SPDT contacts rated 0.5 amp @ 125 VAC. Brand new in factory bag.

G14464 \$1.99 ea.





## Our Smallest

### SMD Pushbutton Switch

Tiny pushbutton SMD mounting switch actually clicks to give positive indication of operation. Has SPDT contacts that close when black pushbutton is pressed. As soon as button is released the contacts open (momentary operation). Size only .23" L x .17" W x .07" Thick (size excludes tiny black pushbutton). New on tape and reel.

**G13518 4/\$1.00**

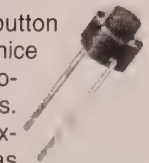
**G13518A 100/\$10.00**



### Tiny Pushbutton Switch

This is one of the smallest pushbutton switches we have seen. Features a nice "click" sound, a pushbutton and momentary action N.O. SPST contacts. Size only 0.23" dia. x 0.13" high (excluding tiny grey pushbutton). Has long 1/2" L leads.

**G14399 3/99¢**



### Mini Pushbutton Switch

Miniature pushbutton switch by Hokuriku was made for Motorola. Size about .25" x .34" (base) and .22" high including button. Features N.O. momentary contacts with red pushbutton. Has long leads and is on tape & reel. Made to mount on PC boards. Nice reliable action!

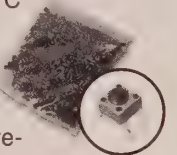
**G14045 5/\$1.00**



### Bag of Tiny Pushbutton Switches

Tiny but reliable snap action PC mount pushbutton switch features SPST contacts with momentary action. When you press down on the small black pushbutton, the contacts close-When you release the pressure on the button, the contacts open. Size only 0.25" square by 0.15" Tall (excluding button). Brand new factory bag of 1,000 pieces.

**G14796 \$35.00/Bag**



### Push On/Push Off Switch Assortment

This is our greatest push on/push off switch assortment ever! You'll get various PC mounting types. All are brand new, prime! Package of 10.

**G13284 \$2.00 ea.**



### Tiny Pushbutton Switch

Tiny but reliable PC mounting pushbutton switch by Omron type B3F features SPST contacts and positive snap action. Momentary type normally open. Has 5 leads to allow for correct alignment. Size only 1/4" square x 1/8" Tall (excluding white activation button). Brand new-sold in sealed manufacturer bags only.

**G1412 Bag of 100/\$5.00**



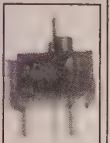
### Micro Pushbutton Switch

Very smooth, easy to operate micro pushbutton switch features SPST normally open momentary action contacts. Tiny white activation button and 3 solder pins on bottom for PC board mounting (only the 2 outer leads go to the contacts). Size only .33" (L) x .16" (W) x .23" (H) excluding button. Brand new, precision high quality switch!

**G4578 5/\$1.00**

**G4578A 100/\$15.00**

**G4578B 1000/\$120.00**



### Bag of Tiny Switches

Small pushbutton switch features right angle PC mount and SPST momentary action contacts which close when you depress the small black button. Size about 0.3" Square. Has small metal frame for additional support. Nice click action. Blowout price! Bag of 100.

**G14563 Bag of 100/\$2.99**

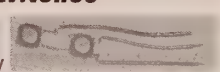


### Water Thin Push Button Switches

#### w/ Tactile Feedback

Unique miniature switches only .28" sq x .08" thick feature SPST N.O. momentary contacts. When you push the center button, the contacts close until you release them. These are brand new but 2 of them have been soldered together to form an equivalent SPDT 2 actuator switch. Leads are 1 1/2" long flexible, insulated and color coded. We are selling a bag of 10 of these (20 Switches).

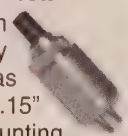
**G2309 \$1.00/ Bag**



### Tiny Panel Mount Push-Button Switch

Precision made miniature push-button switch features N.O. SPST momentary action contacts. Contacts close as long as small black button is held in. Mounts in a .15" hole in panel and comes with a panel mounting nut. Size is about .25"Dia. x .48"Long.

**G14814 3/99¢**



### Simple Lighted Pushbutton Switch

These N.O. SPST contact momentary pushbutton switches feature a small LED in the center that lights up a bright green. These are new but they do not have a top bezel. Size is .32" square x .46" tall.

**G12987 5/\$1.00**



### Pushbutton Mini Panel Mount Switch

Nice quality panel mounting push button switch features SPDT contacts rated 6 amp @ 125 VAC. Momentary action type. Size about .52"L x .33"W (body) x 1" Long from bushing to end of body. Mounts in 0.25" hole. Complete with 2 nuts and washers. Shaft is chrome plated .39"L x .12" Dia. No knob available.

**G14077 99¢ ea. • 4/\$3.00**



### SMD Pushbutton Switch

Momentary action normally open contact push button switch closes contact as long as button is pressed. Very tiny, only 0.2" sq. x 0.05" thick. SPST contact. Nicely made precision metal body. On tape & reel.

**G13795 10/\$1.00**

**G13795A 100/\$8.00**

**G13795B 1000/\$50.00**



### PC Mount Pushbutton Switches (Pkg of 5)

1/4" x 1/8" Pushbutton Switch - Momentary Type. PC Mount. SPST N.O. Contacts. Prime, brand new. Package of 5.

**G2340 5/\$1.00**



### Right Angle Pushbutton Switch

Small right angle PC board mounting momentary action pushbutton switch features SPST contacts that are normally open until the button is pressed. Size about 6mm square with pins on 5mm centers (excluding mounting ears).

**G4368 10/\$1.00**

**G4368A 100/\$8.00**

**G4368B 1000/\$75.00**

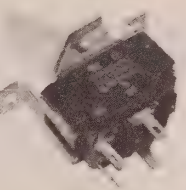


## Lever Switches

### 15Amp Lever Switch

Heavy Duty "computer grey" lever switch mounts in a 1.35" x 0.75" hole and features 2 mounting ears with holes to use your screws and nuts to mount. Contacts are DPST rated 15Amp @ 125VAC or 10Amp @ 250VAC.

**G14348 \$1.99 ea.**



### Deluxe Lighted Lever Switch

Black body switch features a hinged lever that you press down on to operate. Features an LED built into the top and SPDT contacts. Has 6 PC pins. NOTE: Numerals on top may vary from the picture. Made in Germany. Size about .69"L x .48"W x .57"H.

**Green LED G14369 3/99¢**

**Red LED G14370 3/99¢**



### DPDT Panel Mount Heavy Duty Lever Switch

Red handle lever switch mounts in a 1.35" x 0.75" hole and features mounting ears to secure it to your panel. Snap action for positive activation. Contacts are DPDT rated 6Amp 125VAC.

**G14335 99¢ ea.**



## Key Lock Switches

### C&K 5 Position Rotary Key Lock Switch

Unique panel mounting key lock switch features 1 pole 5 position contacts, 2 keys and panel mount nut. Key can only be removed in 3rd (center) position.

**G12998 \$2.49 ea.**



### Heavy Duty 4 Position Keylock Switch

Nice quality keylock switch panel mounts in a 0.8" dia. hole, and comes with 2 keys. Key can be removed in any position. Brand new, complete with mounting hardware.

**G14641 \$1.99 ea.**





## C&K Keylock Rotary Switch

Type A126 rotary keylock switch features 3 pole, 3 position rotary switch operated by a key. Key can be removed in positions 1 and 3 but not in position 2. Comes with panel mounting nut and bezel. Contacts rated 2.5amps @ 120VAC switching or 5 amps continuous carry. Silver plated contacts and terminals (may have slight tarnish on terminals). High quality, precision made. Each comes with hardware and 2 keys. Worth \$13 each!

**G8081 \$2.49 ea. • 10/\$22.00 • 100/\$190.00**



## C&K SPDT Keylock Switch

Very high quality keylock switch made by C&K for Zenith cable boxes, features compact design and quality reliable construction. Size only 1" length excluding terminals, mounts in a 3/4" dia. hole. Each brass key is unique (not like cheaper lock switches) so if you buy five locks each one will have its own key which will not operate another lock. Key can only be removed in one position. These are brand new but we are selling them at a blowout price because we do not have panel mounting nut. You provide it and save a fortune!

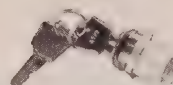
**G1779 \$1.99 ea. • 5/\$6.00 • 100/\$99.00 • 1000/\$850.00**



## Compact Key Switch for Alarms

Compact panel mounting 2 position key switch is only 1" long and mounts in a 5/8" hole. Comes with 2 keys and a panel mounting nut. Contacts are SPDT rated 4Amps at 125VAC. Key can be removed in either position.

**G13786 \$2.49 ea.**



## Heavy Duty Lockswitch

Heavy chrome plated lockswitch by Chicago Lock Co (type ACE®). Features 3 positions (2 SPST on switch positions and 1 off position). Has cylinder type keys that are difficult to duplicate. Panel mounting type with nut and washer. Size 1 3/4"L x 7/8" Dia. Made for 1 1/16" Dia. hole.

**G1058 \$3.98 ea.**



## 4 Position Rotary Lockswitch

This rotary lockswitch features a single pole with 4 position. It comes with two metal keys. Key can be removed in any position except position 2. Switch mounts in a 0.6" hole plus 2 small holes (one on either side) to allow for mounting bolts (not included) which hold the switch to the panel. Brand new. Size about 1.56" x 1.84"L.

**G14422 \$1.49 ea.**



## Toggle Switches

## Center Off DPDT Miniature Toggle Switch

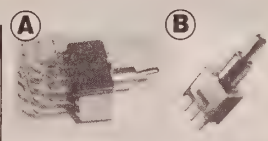
Small DPDT panel mounting toggle switch mounts in a .25" hole and features contacts rated 6Amps @ 125VAC. Has chrome plated miniature bat lever. Complete with panel mounting nut and hardware.

**G15190 \$1.00 ea.**



## Miniature Toggle Switches

Stock#	Size (L X H)	Mount	Contacts	Rating	Fig.	Price
G6010	13/16" x 1/2"	PC	4PDT	5A @ 125V	A	\$1.00
G7060+	5/16" X 3/16"	PC	SPDT	-----	B	\$1.00
+ Spring Return						



## Standard Size Toggle Switches

Stock #	Size (L X H)	Contacts	Rating	Fig.	Price
G5123	1" x 9/16"	SPDT	3A @ 125V	X	\$1.25
G7893	1 5/16" x 3/4"	DPST	15A @ 125V	Y	\$1.00



## SPDT Mini Panel Mounting Toggle Switch

Miniature toggle switches with panel mounting nut. Brand new with chrome plated bat handle. 6Amp contact rating.

**G1485 2/\$1.00**



## DPDT Mini Panel Mounting Toggle Switch

Miniature toggle switches with panel mounting nut. Brand new with chrome plated bat handle. 6Amp contact rating.

**G1526 2/\$1.50**



## ALCO Mini DPST Panel Mount Toggle Switch

Precision made toggle switch by ALCO features DPST contacts and mounts in a .25" hole. Complete with panel mounting nut.

**G14885 2/\$1.00**



## C & K SPDT Micro Size Toggle Switch

Type T101 by C & K features SPDT 3Amp 120VAC contacts and a choice of mounting. It can be panel mounted in 5/32" Dia. hole or mounted on a PC board at a right angle. Very high quality precision made with a tiny chrome plated "bat" lever. Perfect for thousands of applications where size is a premium. Brand new-prime.

**G1828 8/\$1.00**



## Miniature PCB Mount 2 Way Detector Switches

This 4 pin switch is designed to mount upright on PC board and features a white nylon actuator that can move 27° in either direction from center. Contact rating 100mA @ 12VDC.

**G15299 3/\$1.00**



## Center Off SPDT Miniature Toggle Switch

Miniature toggles switch type MTS-1 features SPDT 6A 125VAC contacts. This switch has panel mounting hardware and mounts in a .23" hole. With chrome bat lever. Has center off position.

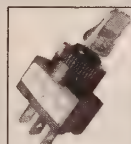
**G13117 \$1.35 ea.**



## Lighted Toggle Switch For 12V Applications

Nice quality SPST panel mounting toggle switch with a colored see thru paddle that lights up when 12 volts is applied and switch is operated. Switch contacts are SPST rated 20Amps @ 12VDC. We have 2 different color lighted switches available. Each is in a factory sealed bag with hardware. Contains an incandescent lamp so polarity does not need to be observed.

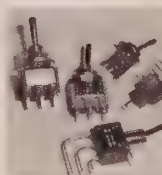
Red	G14555	\$1.49 ea.
Yellow	G14556	\$1.49 ea.



## Miniature Toggle Switch Assortment

Assortment of 5 different miniature toggle switches. Some are panel mount and some are PC mount All are small high quality types. Most have contact ratings printed on them.

**G15303 \$2.99**



## PC Mount SPDT C&K Toggle Switch

Type 7101 toggle switch features SPDT contacts rated 5amp 120VAC. Miniature case right angle mount with chrome "bat lever".

**G2267 2/\$1.00**



## Tiny Center Off SPDT Toggle Switch

Small toggle switch for right angle PC board mounting is only 0.5"L x 0.22"W x 0.38"H. Features standard action with "center off" position.

**G12937A 5/\$1.00**



## Subminiature Panel Mount Toggle Switch

Tiny panel mount toggle switch mounts in a 0.20" dia. hole and features SPST contacts rated 1.5Amp @ 250 VAC. Has nice chrome bat handle and full set of mounting hardware. In individual factory sealed packaging.

**G14589 99¢ ea.**





## Tiny SMD Reed Switch

Type FR2313 glass reed switch by CP clare feares a .6" L x .09" W x .05" H glass body with 2 tiny SMD terminals. The SPST N.O. contacts close when any magnet is brought near the glass. This switch is more sensitive than most reed switches we have seen.

**G13078 \$1.00 ea.**



## Bimba Magnetic Reed Switch Assembly

These are made for use with Bimba air cylinders to control a load or provide an indication that the cylinder has operated. This is a complete package for use with most Bimba cylinders. It contains hardware and a magnetically operated reed switch with cable rated 10 watts max (200V max and 500ma max). We aren't sure, but it is probably necessary to attach a small permanent magnet (not included) to the actuator on the Bimba cylinder. Bimba# MRS-087-B-09. Brand new in mfg. bags with instructions.

**G13742 \$1.00**



## Our Smallest Reed Switch

One of the smallest tiny reed switches made. Consists of a 9/16" long glass magnetic operated N.O. contact reed switch in a rigid plastic holder. Contacts of switch close when magnet is brought rear. Great for alarms, robots, etc.

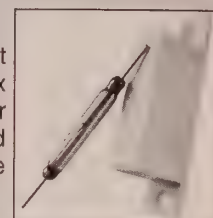
**G1347 2/\$1.00**



## Special Magnet & Reed Switch

Nice quality reed switch rated 1 amp and matching magnet is enclosed in an off white case which is 1.5"L x 0.5"W x 0.72"H and has mounting ears which extend 0.41" on either end. The reed switch is 1.42"L (excluding leads) and is rated 1Amp. When the magnet approaches within 1/2 inch of the reed switch, the contacts close.

**G13997 \$1.00/set**

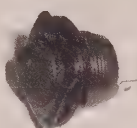


## Rocker Switches

### Easy Mount SPDT Rocker Switch

This round flat black rocker switch mounts in any 5/8" hole in a panel by means of its locking nut. Contacts are rated 125VAC 10Amps or 250VAC 6Amps. Very nice precision rocker action.

**G13375 \$1.00 ea.**



### Compact Super Power Rocker Switch

Stylish black rocker switch with white lettering snaps into a 1" x .6" rectangular panel hole and features SPST 15Amp@125VAC contacts. Very nicely made switch with positive "click" action.

**G13724 49¢ ea.**



### C&K 7107 Miniature Panel Mount Rocker Switch

Miniature rocker switch features panel mounting ears and mounts in a 0.5"L x 0.26"W hole. The mounting ears are on 0.9" centers. Contacts are SPDT and feature one "on" position and one spring return (momentary) position. Rated 5Amp @ 125VAC.

**G14213 \$1.00 ea.**



### "Snap In" Heavy Duty 16 Amp@250VAC DPST Rocker Switch

Snaps into a 1.1" x 0.88" hole in your panel. Features heavy duty contacts and positive snap action. We have 2 different color rocker levers.

**White G13917 2/\$1.00**

**Black G13918 2/\$1.00**



### Snap-In Rocker Switch Heavy Duty 15Amp

Computer grey beige rocker switch snaps into a 1.1" x .5" hole in your panel. Features SPST contacts rated 15Amps @ 125VAC or 10Amps @ 250VAC.

**G14853 79¢ ea.**



### DPST 20Amp Snap-In Rocker Switch

Heavy duty rocker switch 20Amp @250VAC or 1/2HP @125VAC. Snaps into a 1.2" x 0.85" rectangular hole in panel. Black with white lettering.

**G14542 99¢ ea.**



### Handy Mount DPDT Square Rocker Switch (Mounts in a round hole)

Unique .90" square DPDT rocker switch features 10Amp@125VAC contacts. Has attractive black case with red rocker. Mounts in a .70" diameter hole.

**G2206 \$1.35 ea. • 100/\$90.00**



### Small Snap in Rocker Switch

Small black rocker switch with white lettering snaps into a 0.78" x 0.48" hole. Has SPST contacts and positive snap action. The terminals on the switch are slightly tarnished so we are blowing them out at a fraction of their regular price.

**G14165 10/\$1.00**



### Easy Mount Snap-In Rocker Switch

Round rocker switch snaps into a 0.8" dia. hole in your panel or chassis. Features SPDT contacts with a 10 Amp@125VAC or 6Amp @ 250 VAC rating. Nice positive click action Matte black finish.

**G14451 2/\$1.00**



### C&K U21 DPDT Rocker Switch

Grey plastic rocker small DPDT switch by C&K features 5Amp 120VAC contacts. Made for PC board mounting. Blowout price!

**G13836 3/\$1.00**

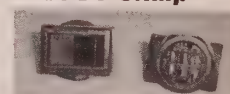


### Easy Mount Rocker Switch DPDT 6Amp

Black plastic rocker switch mounts in a .70" round hole. Comes complete with nut to secure switch to panel. Overall size of switch is 1.1"L x .79"W x .7" thick (excluding terminals and lever). Has solder terminals and contacts rated 6Amp @ 125VAC.

**G2239 \$1.00 ea.**

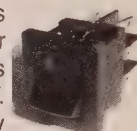
**100/\$75.00 • 1000/\$590.00**



### C&K Stylish Lighted Rocker Switch

Ultra stylish black rocker switch features small window contact in rocker lever which glows. Incredible rating for this size switch: 10 amps @120VAC DPST. Light requires 120VAC. Size only 13/16"L x 5/16"W.

**G8184 \$1.00 ea.**



## Rotary Switches

### 2 Pole 4 Position Rotary Switch

Non shorting 2 pole 4 position rotary switch with standard 3/8" diameter panel mount bushing and panel mount nut. Shaft is for 1/4" diameter knob and is a "D" type.

**G1624 \$1.00 ea.**



### 3 Position Micro Rotary Switch

Tiny rotary switch is the same size as a T05 metal case transistor. Features white knob with black pointer. Has 8 PC leads. Brand new.

**G14468 4/99¢**



### 2 Pole 3 Position Rotary Switch

Standard size panel mounting rotary switch features 3/8" bushing and panel mounting nut. Has 1/4" Dia. flat bar shaft to accept set screw knobs. Special pricing!

**G13928 4/\$1.00**

**G13928A 100/\$22.00**





## Super Dip Switch Assortment

Super assortment of prime dip switches. Styles and positions vary from right angle mount to up-right, and from 2 to 8 positions. All are brand new and made by the top brands such as Grayhill, C&K, CTS, etc.

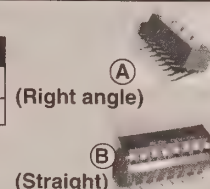
**G14340 Package of 5/99¢**

## PC Board Mount Precision

### DIP Switches

Illustrations represent the typical type of mounting (straight or right angle) but the actual switches may vary from the drawings.

Posit	Fig	Stock	Price
4	A	G7732	5/\$1.00
8	B	G7532	2/\$1.00



## Snap Action Switches

### Small Snap Action SPDT Switch

Small snap action switch by Zippy (type VMN-10) features SPDT contacts rated 10Amp @ 125/250 VAC. Size about 1.10"L x .62"W x .38"T. Features 1.10" long metal activation lever. Mounting holes are on a 1" diagonal.

**G2202 2/\$1.00**  
**G2202A 100/\$45.00**



### Cherry Snap Action Switch

Small snap action switch by Cherry type E61 features SPST 5Amp 125VAC-250VAC contacts. Size about 19.75mm(L) x 6.5mm(W) x 9mm(H) excluding small white activator button.

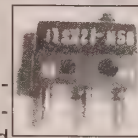
**G4037 2/\$1.00**



### Tiny but Powerful Snap Action Micro Switch

Tiny SPDT snap action micro-switch features 5Amp 250VAC contacts. Has tiny activator button and gold plated posts for connections. Size only .5" L x .2" W x .37" H (excluding button). Brand new in sealed Micro Switch bag marked 11SX21-H58.

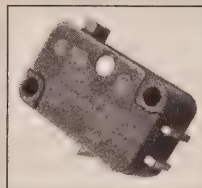
**G12851 2/\$1.00**  
**G12851A 10/\$4.00**



### Heavy Duty Snap Action Switch by Micro Switch

Heavy duty snap action switch by Micro Switch features SPDT contacts rated 15Amps @ 250VAC. Size about 1.1" x 0.625" x 0.39". Has activation button on top.

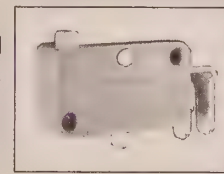
**G14539 3/99¢**



### Snap Action Switch

Nice snap action switch features SPDT contacts rated 6Amp @ 125-250VAC. Size: 1.1"L x 0.62"H x 0.4" Thick. Has white 0.16" Tall snap button activator. Made by C&H. Blowout price!

**G13841 5/\$1.00**



## Slide Switches

### Small SPDT Slide Switch

We made a special purchase of 120,000 of these high quality side switches and we are passing the savings onto you. Size only 5/8"L x 3/16"W including mounting tabs. Nice positive action with black plastic lever. Factory box of 40 switches. Prime-brand new.

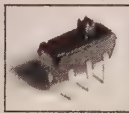
**G1371 Factory box of 40/\$2.00**



### Tiny DPDT Slide Switch

Great little slide switch features nice positive action. Has 6 leads for secure mounting and DPDT contacts. Size only 8.4mm (L) x 3.6mm (H) (excluding lever). Black color-precision made by Noble part #N10036M.

**G1827 5/\$1.00**  
**G1827A 100/\$15.00**  
**G1827B 1000/\$120.00**



### SPDT PC Mount Slide Switch

Small PC mounting slide switch features SPDT contacts and white positive action slide lever. Size about .56" L x .25" W x .34" H (excluding lever). Pins are on .17" centers.

**G13372 10/\$1.00**  
**G13372A 100/\$8.00**



### Miniature Right Angle Slide Switch

Small SPDT slide switch is only .47"L x .22"H. Has three pins for PC board mounting. Features black slide lever. Special Blowout Price!

**G14870 7/\$1.00**



### Standard Size DPDT Slide Switch

Panel mounting DPDT slide switch with black plastic lever. Space between mounting holes is 1 1/8".

**G1625 5/\$1.00**

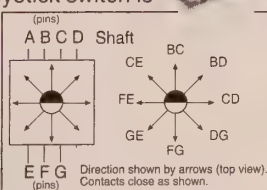


## Misc. Switches

### Unique Micro Joystick Switch (8 Directional)

Tiny PC mounting micro joystick switch is only 0.48" sq. x 0.25" High (excluding shaft). Shaft is "D" type 0.08" Dia. x 0.27" Long. Depending on which direction the shaft is pushed a set of the contact matrix close! Contacts rated 10mA @ 5VDC. Very unique and precision made! These sell for over \$5 each.

**G14071 \$1.99 ea.**



### "Screw in" Dome Light Switch

This heavy duty yet simple switch is designed to "open" the dome light circuit to ground when your car door or trunk is closed (turning your dome light off). As soon as the door opens the plunger releases closing the circuit lighting the dome light. Features heavy duty "nut" for 11mm wrench with threaded body which threads into a 9mm (0.36") dia. sheet metal hole. Has crimp wire terminal at end.

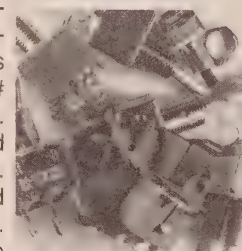
**G14376 3/99¢**



### Miniature C&K Switch Assortment

Deluxe high quality assortment of 7 different miniature switches. Each is marked with a C&K part # and each is brand new. You'll find PC mount and panel mount types. Rocker, pushbutton and toggle types are included. Hurry - Just one of the switches is worth more than the entire package.

**G14056 \$1.99**



### Lighted Pushbutton Test Switch 5VDC

This indicator/test switch can be "press fit" into a 1/2" panel hole and lights up a bright red when 5VDC is applied. When you press the spring return red lens, the light goes out and the contacts short.

**G13858 2/\$1.00**



### Standard Keyboard Switches

Standard keyboard switches (without caps) for replacement in many computer keyboards. Momentary contact spring return types with 2 leads on bottom. Size about .54" square.

**G13708 10/\$1.00**

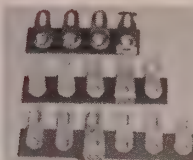




## Terminal Lug Strips

Great for use with metal chassis to interconnect wires and components. Each strip has one terminal which mounts the entire strip to the chassis and is grounded. The rest of the solder terminals are insulated from ground.

Terminals	Size	Stock#	Price
4	1 1/2"L	G9954	4/\$1.00
6	2 1/4"L	G9956	3/\$1.00
7	2 5/8"L	G9957	2/\$1.00



## Test Equipment

### 6 Function 14 Range Multimeter

Model GMT-18A by GB tests AC/DC voltage, DC current, Resistance and Batteries. Compact design! Thousands of uses including testing receptacles, auto appliances, electronics, lighting fixtures, etc. Technical specs: AC voltage to 700V, DC voltage to 1000V, DC Amps to .250, Resistance to 10MΩ, battery test 1.5V & 9V, Fuse 2A/250V, Decibels -20 - +62dB, Sensitivity 10,000 Ω/V, AC Sensitivity 4,000 Ω/V, operates on one AA (1.5V) battery (included), includes test probes and instructions. Brand new! UL listed. Size: 4 1/8" x 2 1/2" x 1 1/4".



**G1490 \$7.49 ea.**

### Universal Banana-Probe Test Lead Set

Nice quality flexible test lead set consists on one red and one black 36" long test lead. Each test lead has a standard banana plug with long rubber insulator (that can be trimmed with a razor blade to match your particular meter) on one end and a sharp pointed insulated handle probe on the other end. Brand new & UL listed.



**G13495 \$2.95 per set**

### TEST CLIPS with wire

If you work with electronic components, you will definitely recognize these alligator clips with wires. Two alligator clips are connected by a wire so that you can clip on to parts. You get 10 total wires (2 red, 2 black, 2 green, 2 yellow, and 2 white). Each has 2 clips and is 13 1/2" long. These are great for prototyping, repair work, or just to have around. Stock up and save!



**G1498 10/\$2.49**

### Continuity Tester and Flashlight Pen

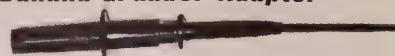
Handy, nice quality and simple to use continuity tester for automotive, appliance, household and electronic applications. Features chrome plated 5 3/4" long pen and removable 29" flexible wire with test clip. Simply connect clip to one end of path to be tested and touch the other end with the pen. If you have continuity the bright light will illuminate. Also doubles as a flashlight. Requires 2AA batteries (not included). Brand new in retail packaging.



**G13787 \$2.95 ea.**

### Extra-Long Banana Grabber Adapter

These push on to standard banana plugs and convert the banana plug to a 7" Long hook type grabber so you can access those hard to reach places. Available in black only.



**G9623 \$2.49 ea. • 2/\$4.00**

### Tru-Spark™ Ignition Firing Indicator and Neg Ion Detector

Small 5 3/4" x 0.6" dia. pen like electronic instrument features a sensitivity control and 2 bright internal LEDs. It's original application is to determine if a particular spark plug is firing (the green LED goes off and the red LED flashes to indicate the spark). No connection to wires are needed - It's totally wireless. We found an alternate use that is very handy. When you bring the pen near a source of negative ions (the emitter needles on either of our negative ion generators) the red indicator flashes to indicate the presence of negative ions. Brand new with 3 built in 1.5V button cell batteries.



**G13835 \$5.95 ea.**

## Thermal Devices/Thermistors

### Stud Mount Thermal Switch

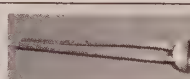
Made by Elmwood part# 31000-98-19 F176. This stud mount thermal switch closes its contacts when temperature hits 176°F. Switch contacts reopen when temperature drops. No mounting nut included.



**G15210 \$1.99 ea.**

### Thermistors

Small thermistor Type A170. Cool resistance approx. 1.5K ohms. Hot resistance approx. 25 ohms.



**G2005 5/\$1.00**

**G2005A 100/\$18.00**

### Negative Temperature Coefficient Bead Thermistor

Tiny long lead thermistor decreases its resistance as the temperature increases. Resistance at 78°F is about 1KΩ. At 350°F it is about 150Ω.

**G14610 3/99¢**

### Thermal Switch/Fuse Assortment

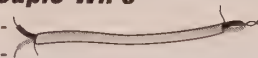
Assortment of thermal switches and thermal fuse. You get three various thermal switches and one thermal fuse in each package. Each is marked and brand new with full length leads.



**G14054 \$1.00/Set**

### Heavy Duty Thermocouple Wire

Great for science experiments, heat measurements, etc. This super heavy duty thermocouple wire produces electricity from heat. Simply twist the ends of the 2 dissimilar metal wires together and a voltage will be produced in relationship to the amount of heat applied. This cable is 16ga. with a copper shield lead and 2 thermocouple leads all inside a purple jacket.



**G3261 \$1.00/ft.**

### Small Thermal Switch for Battery Packs

These are brand new thermal switches that are designed to be placed in contact with your rechargeable cells. If the battery pack gets too hot during charging these can open the charging circuit until the pack cools down. Small size (about 0.63"L x 0.11" x 0.20" (excluding leads). Brand new by Pepin.



**G14366 3/99¢ ea.**

### Elmwood Thermal Sensor

Part# 3100-300-1 F203. This normally open metal sensor is designed to close contacts when your equipment, motor, etc. gets too HOT! Judging from the part#, we think that temperature is 203°F. As soon as equipment cools down, the sensor opens up again. Hermetically sealed prime unit.



**G3043 \$1.00 ea.**

### Low Ohm Thermistor

Small 3/8" Diameter thermistor has about 2-2.5Ω resistance at room temperature. As temperature rises, resistance rises. These are on tape & reel. Part# PTC51975.



**G14663 3/99¢**

### NTC S237/2.5M Inrush Thermistor

Made by Siemens-Matsushita this S237/2.5M thermistor is widely used to protect switching mode power supplies, AC motors, UPS and frequency generators. The thermistor limits the inrush current protecting the device. This particular part is rated 2.5 ohms, 6.5 amps, and is about 0.56" Dia. x 0.17" thick. These are brand new with full length leads on tape & reel. Worth over \$2 each.



**G14789 4/\$1.00**

### Tiny Glass Thermistor

This thermistor is ultrasensitive to temperature changes and is in a tiny glass case (just like a 1N4148 diode). Resistance at 75°F is about 10K, however it changes rapidly to lower resistance as temperature rises-just grasp it with your fingers. Prime Semitec DCA8025 Type 103CT-4 by Ishizuka Electronics Corporation of Japan.



**G1929 \$1.00 ea. • 200/\$150.00**



## Helping Magnifier

This helping magnifier is like having two extra hands. This unit includes a 2 1/2" magnifying glass and two alligator spring clips to hold objects at any angle to each other leaving both hands free. With this unit, you can glue, solder, repair, and assemble projects with ease! The 6 ball joints are capable of locking at any angle desired. Features nickel-plated fittings and a heavy cast-iron base. Makes a wonderful addition to any workshop!

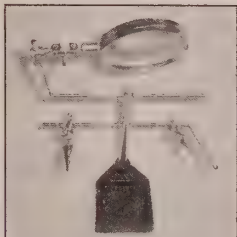
**G9773 \$2.98 ea.**



## Giant Helping Hands

This is similar to regular helping hands but it is designed to hold large circuit boards, panels, objects, etc. Just like its smaller brother this one has a weighted base and magnifying glass. Absolutely a must for every hobbyist or technician. Clips hold your work firmly so you can solder or inspect it. Has various clamps and swivel joints so you can customize it to your application. Unit has a maximum height of 11", maximum width of 8", a base size of 4 3/4" x 3 1/4" and a 3 1/2" diameter magnifier size. These are really nice, good quality and very handy.

**G1689 \$9.95 ea.**



## Special Soldering Helping Hands

This is the most useful of the "helping hands" series for anyone building or repairing electronic kits. It comes with fully adjustable clips for holding your circuit board, a quality magnifying glass, a small soldering iron holder and a sponge in the base. Just provide a soldering iron, wet the sponge and you're ready to go. If you solder, you'll definitely want this! In retail box. Makes a great gift for any hobbyist.

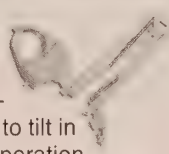
**G12810 \$4.98 ea.**



## Standard Adjustable 3x Magnifying Lamp

Great item for all types of hobby work! Features 4" diameter optically ground glass, 3X magnifying lens, a fully adjustable 30" arm extension with the ability of the lamp to tilt in any direction, standard 120VAC operation and uses any 60Watt bulb of your choice (not included). Brand new in retail box. White color.

**G1700 \$23.95 ea.**



## Heavy Duty 3X Magnifying Lamp

Features large 5" diameter 3X optically ground glass magnifying lens, fully adjustable 45" extension arm, full tilt capabilities, operation from standard 120VAC. Easy to use mounting base, cool 22" circline fluorescent tube included. This is the perfect lamp for use when working with SMD or other small PC boards. Brand new in retail box. White color.

**G1695 \$44.95 ea.**



## Giant 200Amp Spring Jaw Clip

This non-insulated clip is very heavy duty with the body made out of solid copper. Features strong jagged jaws, heavy duty spring and large bolt and nut for connecting your large gauge wire.

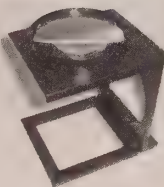
**G15219 \$3.95 ea.**



## Foldable Table Top Magnifier

Great for working on hobbies, building kits, sorting parts, etc! This giant 2X magnifier glass magnifier sits in a sturdy black plastic stand. Overall size of the magnifying glass is 4" in dia. Stand is about 7 1/2" tall x 5 1/4" square. Base has "mm" and "inches" marked on the surface. Brand new in retail box.

**G13370 \$4.99 ea.**



## Handy Desktop Magnifier w/120VAC Light & Stand

This is one of the best, easy to use, but yet effective, solutions for working with small electronic parts or soldering circuit boards. Features a 3.9" diameter 3X lens with a small 6X higher power lens insert. The lens tilts and is mounted on a small wire frame with a built in 7Watt small incandescent lamp (C7 size). The lamp has a cord with switch and plugs into 120VAC. Brand new in Retail Carton.

**G14196 \$7.95 ea.**



## Handy Keychain Pocket Magnifier

Fold out pocket magnifier features a nice power lens so that you can read tiny part numbers and SMD parts. Brand new. Case colors vary.

**G14331 99¢ ea.**



## Large 10X Power Loupe

Powerful 10X glass optics loupe features chrome plated case. Very nice item - you won't believe how useful this is when looking at tiny SMD parts. Loupe retracts into protective metal cover so you can put it in your pocket. Size about 3/4" dia. lens and about 1 1/4"L x 7/8"H metal case. Brand new in protective plastic box.

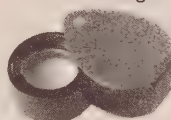
**G13373 \$3.95 ea.**



## Small Size Folding 10X Magnifier Loupe

Handy yet inexpensive magnifier features folding design for lens protection and 10X lens. Handy for viewing tiny SMD parts. Size overall about 1.4" x 1" x 0.6" thick. Blowout price!

**G14310 \$1.99 ea.**



## Giant Loupe

This is probably the largest magnifier loupe we have ever seen. Makes SMD components look huge! Great for all types of hobby or jewelry use. Magnifying lens folds out from black plastic protection casing. Powerful precision made magnifier is 6X power. Overall case size about 2 1/4" Dia x 3 1/2". New!

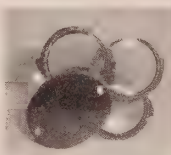
**G1693 \$3.95 ea.**



## Tripple Fold Magnifier Loupe

Consists of an oval black plastic loupe case with three individual 5X glass magnifier lenses. Can be combined or used individually to give 5X, 10X and 15X magnification. Size about 1 5/8" Dia x 2 1/8" L. Brand new in box.

**G1694 \$3.49 ea.**



## 6 Piece Precision Screwdriver Set

4 flathead sizes: 1mm, 1.2mm, 1.8mm, & 2.4mm and 2 slotted (3mm & 3.5mm) screwdrivers. Each screwdriver has a hardened and tempered rustproof blade and a bright plated handle. The entire set is housed in a snap closure type plastic case.

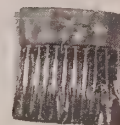
**G9774 \$1.29/set**



## Searching for a Small Screwdriver?

This set of 10 flathead screwdrivers comes in a pouch with numbered slots to organize and identify each screwdriver. The smallest screwdriver is less than 1mm wide, and the rest incrementally go up to 2mm wide! All ten of the screwdrivers in this precision set are great to have around.

**G9775 \$2.49/set**



## 10 Piece Jeweler Screwdriver Set

Features 10 different straight blade screwdrivers that range from ultra tiny up to small in size. With this handy set you are sure to find the right one for your application. With handy reclosable pouch.

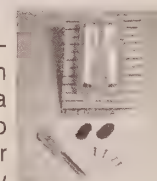
**G14303 \$2.99 ea.**



## Eyeglass Repair Kit

Handy item to have around for repairing eyeglasses or small hi-tech electronic devices. Consists of a small reclosable plastic box, two tiny screws, two slightly longer screws, two spacers, and a tiny screwdriver. Blister packed.

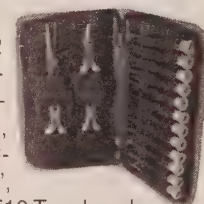
**G1663 2/\$1.49**



## 16 Piece Good Quality Miniature Tool Set Screwdrivers, Torx, Cutters and Pliers

Zipper pouch containing: 2 small wire cutters, 2 small pliers, 4 mini phillips head jewelers screwdrivers (#000, #00, #0, #1), 4 slotted head jewelers screwdrivers (1/16", 5/64", 3/32", 1/8") and T6, T8, T9 & T10 Torx head mini tools. These have hardened tips and are great for all types of small equipment applications. We tested the smallest torx tool on a tough screw removal job and it worked perfectly. Super value!

**G14756 \$19.95 ea.**



## Thorsen 22 Piece Screwdriver & Bit Set

Complete set of high quality insulated handle tools with chrome plating and hard vanadium steel tips. Includes 4 different size standard slotted screwdrivers, 5 different size phillips head screwdrivers, a 10 piece set of torx and misc. insert bit set with insert bit handle, 2 offset phillips/slotted screwdrivers and a handy wall mounting holder bracket. These are high quality tools not junk sold by others. Brand new in retail blister package.

**G9963 \$18.95 SALE! \$11.95 ea.**





## High Quality Electronic Type Needle Nose Plier

High quality, chrome-plated needle nose miniature pliers for precision electronic work. Precision made with spring type insulated grips. Handy and precision made in India. Size: 4 3/4" long.

**G5558 \$4.95 ea.**



## Excelta 4 3/4" Serrated Jaw Long Nose Plier

Model 11D-1 by Excelta is probably the best chrome vanadium steel precision pliers we have seen. This has precision box & lap joints, ESD safe blue foam cushions on handles and dual leaf springs. These are brand new in factory box. Worth \$38.00 each.

**G14267 \$8.95 ea.**



## 5" Groove Joint Plier

These small but powerful pliers are about 5" long with nice black cushion grip handles. Chrome plated steel jaws can handle up to a 3/4" size nut. Groove channels allow for firm gripping of smaller sized nuts. Very handy pocket size, yet gets the job done! Retail card packaging.

**G14428 \$2.99 ea**



## Adjustable 5" Wire Stripper

Handy rubberized handle wire stripper is an indispensable item to have when building any electronic project. Fully adjustable to strip various gauges of insulated wire. In retail card package.

**G12940 99¢ ea.**



## Universal Phone Cable Crimp Tool Kit

Handy tool repairs all telephone handset cord plugs and telephone line cord plugs. Tool cuts off old plug and automatically crimps on new plug with a simple squeeze of tool. Make new cords or repair old cords. Comes with 6 handset plugs and 6 line cord plugs. Brand new in retail package by Leviton.

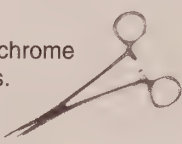
**G13558 \$5.95 ea.**



## 5" Long Locking Forceps

Very nice quality locking 5" long chrome plated forceps with curved jaws. Great for holding tiny parts, wires, leads, etc.. Works great as a heat sink when soldering too. Brand new!

**G14080 99¢ ea.**



## OK Industries IC Extractor

This provides the best way to pull IC's out of sockets without damaging or bending pins. All metal construction works with any size dip IC.

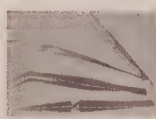
**G14339 99¢ ea.**



## 4 Piece Tweezers Set

Set of 4 metal tweezers. Very useful and handy for hundreds of hobby applications. Retail blister card of 4 different tweezers each about 4 1/2" L.

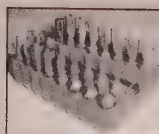
**G1699 \$2.49/set**



## Universal Security Bit Set

Contains almost every type of security bit made. Consists of 32 various size and type bits such as torx, star, fork, etc. It also has an extension tool. All bits are standard 1/4" Dia. base types for use in any electric drill or 1/4" driver. Brand new with tool holder. If you repair or disassemble electronic equipment you'll need this set.

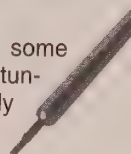
**G13712 \$5.00/Set**



## Hex Type Plastic Tuning Tool

Made for adjusting trimpots, coils and some adjustable caps, this 2 1/2" long plastic tuning tool features a 2mm hex end. Handy item to have in your electronic tool kit.

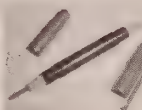
**G14336 3/99¢**



## 4 in 1 Handy Pen Like Package Screwdriver

Handy small screwdriver features two slotted and two phillips heads to tackle most small jobs. This is about the same size as a ball point pen. Just remove the cover and select the size screwdriver head you want to use. Brand new.

**G13719 \$1.49 ea.**



## Motorized Diamond Tip Engraving Tool

This small portable engraving tool actually does a good job in engraving whatever you wish onto tools, equipment, ceramics, glass, metal objects, name plates, etc. to help prevent loss. Operates on 2 AA batteries (included) and comes with 1 extra engraving tip. Size about 5 1/2" Long. Brand new in retail card.

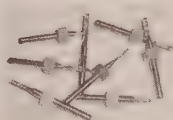
**G13381 \$4.95 ea.**



## Router Bit Blowout

Solid tungsten ultra sharp router bits for PC boards. These are used but have plenty of life left in them. Most have a small plastic collar but some may not. We saw at least 2 sizes .088" and .063" (but there may be more). Great for making custom shapes and holes in glass epoxy PC boards!

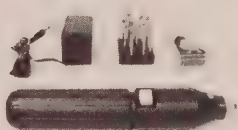
**G13259 8/\$2.00**



## Portable Rechargeable Multipurpose Tool

Very handy item consists of a hand held portable tool, a charger, 3 different collets, and 31 different tips. The tool has built in rechargeable nicads that can be recharged in only 1 hour. Tool tips included are drill bits, router bits, grinding stones, buffer pads, sanding disk, etc. Brand new sealed package with recloseable plastic storage box. This is a tremendous value that is perfect for thousands of precision hobby applications. UL approved.

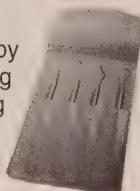
**G12777 \$29.95 ea.**



## Dental Picks Set

Set of 4 razor sharp dental pics for hobby use. These are real handy for removing solder bridges, Flux, conformal coating around IC's on PC boards, etc. These are brand new - not used or resharpened, and are in sealed package with re-usable pouch. Made in USA by Desco.

**G14271 \$2.95/Set**



## High Speed Hobby Drill

Brand new high quality drill/grinder. This is one of the nicest handheld high speed drills that we have seen. We were amazed by the overall quality and performance of this drill. Plugs directly into 120VAC and can be used for hundreds of heavy duty jobs. Features adjustable speed control, a fully adjustable chuck, rigid carrying case with internal accessory compartment and handling instructions. Included with this drill are various grinding stones and disks, sanding drums, router tips and drill bits as well as two replacement brushes for the motor. This is a very nice unit comparable to other drills costing more than twice as much!

**G13331 \$29.95 ea.**



## Hobby Drill / Grinder

Small handheld hobby tool drills, cuts, deburs, grinds, routes etc. Has fully adjustable 1/8" chuck and comes with carrying case, AC adapter, 3 different chuck adapters, 1 tiny drill bit (perfect size for PC board holes), 2 grinding wheels and 1 router tip tool. This compact, easy to use drill comes packed with the accessories shown in convenient reclosable storage case. Size of drill about 4 7/8" L x 1 1/4" Dia brand new!

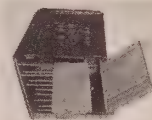
**G1701 \$24.95 ea.**



## Set of 20 Mini Drill Bits

Set of 20 tiny drill bits perfect for hobby and PC board use with the above drill (G1701). You get 1 each of all sizes from 61 to 80 packaged in a small metal box. These are made in China so they aren't as good as their U.S. equivalents but they do perform reasonably well and they are indispensable if you are making your own PC board. New!

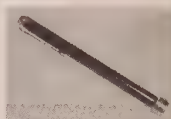
**G1698 \$4.95/set**



## Magnetic 5lb Pick Up Tool

This super telescopic magnet pick up tool contains a powerful rare earth magnet capable of picking up objects up to 5 lbs. The telescopic end extends up to 24" long. Perfect for picking up dropped screws, bolts, nuts, nails, washers, tools, etc. Has clip to attach to shirt pocket. A must for every Tool box!

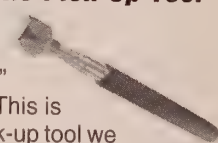
**G9776 \$2.98 ea.**



## Super Power 15lb Magnetic Pick-Up Tool

This telescoping tool is handy for retrieving tools, bolts, nuts assemblies, etc. It extends to 33" but is only 7.5" when retracted. This is absolutely the most powerful pick-up tool we have ever seen. Brand new in retail package.

**G14427 \$3.99 ea.**



## 30lb Pull Pickup Magnet

Handy item to tie onto a rope and retrieve lost metal objects from a lake or pond. Features heavy duty metal casing with ring to tie rope or line to the 30lb. pull magnet.

**G1692 \$3.95 ea.**





## SMART 3 Piece Key Chain Set

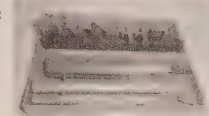
Consists of a bottle cap opener, a #2 slotted screwdriver and a 6mm phillips screwdriver all on a handy key ring. Very useful, well made and compact. This all metal key chain set is brand new in retail package-perfect for party favors or gifts.



**G13716 99¢ ea.**

## Universal Hobby Knife Set

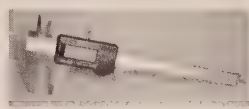
Consists of 3 different sizes of hobby knives (small to large) plus 10 assorted replacement blades in all sorts of shapes and sizes. The whole set is packaged in a reclosable plastic case. Brand new in blister package.



**G1696 \$5.95**

## Precision Digital Caliper

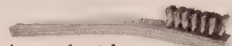
With this precision instrument you can make all types of precision measurements from approx. 0-6.080 inches or 0-154.45mm. Very nicely made unit with electronic digital display that reads to 3 decimal places on inches and 2 decimal places on MM. Selectable MM or inches display. Features locking set screw and stainless steel caliper jaws. Comes complete with battery and protective case. Brand new factory prime with instruction sheet. Simple to use and with the digital LCD display you can't make a measurement mistake!



**G1709 \$49.95 ea.**

## Wire Brush

Wooden handle stiff wire brush is perfect for cleaning tarnished metal contacts and surfaces. Overall length of wood portion is about 7 1/2"L. Brand new - heavy duty.



**G14386 99¢ ea.**

## Clip-On Handy Book Light

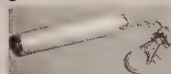
Has an amazingly flexible neck with small head and features a bright white LED and reflector. Read late at night without disturbing others. Small plastic clip unit contains three L1154/A613 button cell batteries that you can replace (common type available at most drug stores). Simple yet very effective design. See thru colored plastic. Brand new retail packed with the 3 batteries already installed. Case color may vary. Sorry, no choice.



**G14426 \$2.99 ea.**

## Bright Blue LED Keychain Light

Small 2 1/2" long push button keychain light features a bright LED and comes with 3 watch batteries for operation. Case is grey and has chrome plated keychain keyholder. Brand new in retail blister pack.



**G13077 ~~\$3.95~~ SALE! \$3.25 ea.**

## Three LED CLIP-ON Flashlight

This super bright Three LED CLIP-ON flashlight has tons of uses! Designed for hands free use for around the house, in the shop, or anywhere you need a good light source while your hands are busy doing something else. Clip-on to helmets, hats, visors, belts, backpacks, books, any table top surface, and many more! This unit uses 3-LR44(AG13) batteries (included).



**G14952 \$2.99 ea.**

## Super Compact High Tech Brilliant White 8 LED Flashlight

This is one of the best aluminum metal case white LED flashlights made. Not only is it precision made but it's super compact (only 3.9"L x 1.2"Dia). Features operation from 3 AAA batteries (not included). The bright white output of this is almost blinding and the compactness and precision design makes this one a great gift for anyone. It even has a handy carrying strap. Brand new, in box. Hurry before we run out! Color grey metal.



**G14730 \$11.95 ea.**

## 28 Piece Electrical Clip Kit

With this handy assortment of clips you'll be sure to have the right one for your application. Has (6) 2" alligator clips, (6) 1 1/2" alligator clips, (10) mini alligator clips, (2) 30Amp charging clips (with jaw large enough to go on a car battery terminal), (2) 25Amp charging clips and (2) 10Amp charging clips. Most have red and black insulating boots except the 10 mini alligator clips. Brand new in sealed retail package.



**G13246 \$4.95**

## 39 Piece Homeowners Tool Kit

Handy tool kit contains a hammer, a 6" long nose pliers, a 6" adjustable wrench, 2 precision jeweler screwdrivers: 1-Phillips, 1-slotted, 20 hex bits with holders (has phillips, slotted tips and Torx® bits, a 1/4" hex drive handle, a utility knife, a 1/2" x 10' tape measure, a 3/8" reversible ratchet, 7 3/8" driver sockets: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16" & 5/8", 1 roll of electrical tape, assorted fasteners and a neat heavy duty convenient storage case. These are brand new high quality and so handy for thousands of jobs around your house or office. Buy one for each location!

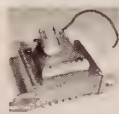


**G1039 ~~\$19.95~~ SALE! \$14.95 ea.**

# Transformers

## 12VDC Transformer

This is a 12 VAC transformer with 2 diodes and a capacitor already connected to it. The output is 12 VDC at 100 ma. The input is standard 120 VAC.



**G8996 \$1.49 ea.**

## 12VAC Transformer

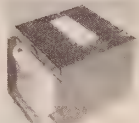
Small open frame transformer is perfect for making power supplies or battery chargers. Rated 12VAC 250ma. Standard 120VAC primary. Flexible insulated leads. Size about 1 3/8" sq x 1 1/4" H. Has mtg ears on 2" centers.



**G8535 \$1.00 • 10/\$5.00 • 100/\$45.00 (send extra for shipping)**

## Signal Printed Circuit Power Transformer

Compact yet powerful PC mounting transformer type DPC-12-2000 by Signal features dual primary (so it can be used on 115VAC or 230VAC) and dual secondaries. Secondaries can be configured for two 6.3VAC @ 2amp, 12.6VCT @ 2amp or one 6.3V @ 4.0amp. Size 1.62" L x 2.25" W x 1.37" H. Brand new. Weighs 12oz.



**G13510 \$2.49 ea.  
10/\$22.00 (send extra for shipping)**

## Compact Power Transformer

High quality power transformer features 120VAC primary and 2 secondaries. One secondary is 24 VAC at 2amps and the other is 36VAC (center tapped) rated 750mA. Open frame with metal mounting ears and flexible color coded wire leads. Size about 2.35"L (without mounting ears) x 2.26"W x 1.96" Tall. Brand new made by EPEC transformer.



**G12951 \$2.98 ea.**

## Tiny Inverter Transformer

Designed for tiny strobelights this small inverter transformer converts 3VDC into 200VAC when used with a simple 2 transistor circuit. Size only .4" square x .35"H. Has 4 pins. Complete with schematic of a simple strobe using this transformer.



**G13599 \$3.95 ea.  
10/\$30.00 • 100/\$250.00**

## 12VCT 750 ma Power Transformer

Prime power transformer feature flexible color coded leads. Primaries is 120VAC Voltage is 12VCT and current is 750ma. Great transformer.



**G6071 \$2.50 ea.**

## Powerful High Voltage Flyback Transformer

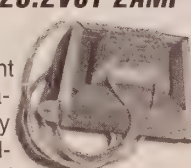
Super high voltage flyback transformer by Phillips part# OV2076M features 3 built-in trimmer resistors. Very heavy duty with a size of about 4.5" Tall x 2.5" Sq. We have absolutely no info on these except that we see 10 PC pins on the bottom and a female connector jack on top (for the anode connection-High voltage). Great for making Tesla coils, laser power supplies, ion generators, etc. Please use extreme caution when working with this and do not purchase this if you are not knowledgeable of high voltage safety precautions. Brand new-No info. Blowout price.



**G14491 \$1.99 ea.**

## High Power Heavy Duty 25.2VCT 2AMP Transformer

High quality open frame filament transformer by Magnatek features standard 115VAC primary and 25.2VCT at 2AMP secondary. Size about 3" long (excluding mounting tabs) x 2 1/2" high x 2" thick. With insulated wire leads. Brand New!



**G1609 \$6.95 ea.**



## 40kHz Ultrasonic Transducer Matched Pair (Transmit & Receive)

Made by Murata, these 40kHz ultrasonic transmitter transducer type MA40A3S and 40kHz receiver transducer type MA40A3R are perfect for making all sorts of range finders, obstacle detecting robots, etc. Check the internet for lots of circuits using this matched pair of transducers. You get 1 transmitter transducer and 1 receiver transducer. Prime-Brand new.

**G14785 \$4.95/pair**



## Sensitive 25kHz Ultrasonic Receive Transducer

Type RD25K2 transducer receives ultrasonic frequencies and puts out a signal. Great for use in bat detectors, ultrasonic alarms, ultrasonic remote controls, etc. Size 0.95" Dia. x 0.37" Thick. With 2 0.65" Long pins for connection.

**G14050 99¢ ea.**

**100/\$75.00 • 1,000/\$650.00**



## Ultrasonic Remote Control Kit One of our Most Popular Kits!

Complete ultrasonic remote control kit consists of a powerful small hand held transmitter kit and a sensitive ultrasonic receiver kit. When you press the transmit button on the transmitter it lights a LED indicator and transmits a 24KHz ultrasonic signal to the receiver kit which can be located up to 50 feet away! At the receiver, a relay closes its contacts and a red LED comes on as long as the transmit button is pressed on the transmitter. Great for robotic applications, remote turn on of lights, alarm systems, etc. Each kit requires one 9 volt battery (not included). Size of transmitter PC board is 2 1/8" x 1 7/16". Size of receiver PC board is 3 1/8" x 1 3/8". Complete with all parts, 2 PC boards and instructions. Skill Level 3.

**C6816 \$14.95 ea.**



## 24KHz Ultrasonic Transducers

High output ultrasonic transducer. Brand new metal case/units. Size: 7/8" diameter x 3/8" thick. Manufacturer part # 0D24K2. Has metal posts for connection.

**G951 \$1.50**

**100/\$125.00 • 1,000/\$1000.00**



## Unique Items

### Ceramic Wafer

Made by Coors® these 0.02" thin x 6" dia. wafers were made for a hybrid IC manufacturer. They have great heat transfer and electrical insulation properties. They also make a unique light diffuser. Brand new with one flat edge. (shown in baggie)

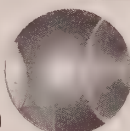
**G13757 \$5.95 ea.**



### Giant Unprocessed Beautiful 8" Silicon Wafer

These have a highly polished surface with several different colors visible on one side and an unpolished surface on the other. They were to be made into ICs but the company ceased operations. They do not have any IC patterns etched into them. On the polished side's outer edge is a tiny set of numbers and a few letters. New but no info. Makes a great dark grey mirror for a wall and a beautiful object d'art. (Photo shows reflection of studio lights).

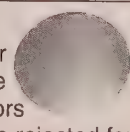
**G14330 \$6.95 ea.**



### Giant IC Wafer

Beautiful metallic gold colored wafer contains over 100 large IC die that were going to be made into microprocessors or other sophisticated ICs. These were rejected for some electronic defect however they are fabulous art objects. Great to frame and mount on a wall or use it for classroom study (use a high power magnifying glass to study the intricate patterns). Size almost 8" in diameter. Will have small notch at edge (part of manufacturing process). These cost the manufacturer thousands of dollars per wafer!

**G13746 \$20.00 ea.**



### Blue Hard Drive Media Disk

These are the actual hard drive memory disks removed from hard drives. These unique pieces of technology are also attractive objects of art. They are actually heavier than you would expect. Size about 4" Dia. x 0.2" thick. May have slight scratches or finger prints from handling.

**G2022 \$2.00 ea.**



### Large 5" Silicon IC Wafer

These beautiful processed wafers with IC dies on them are always a popular item that we sell out fast. These are fascinating to study under a magnifying glass or microscope. 5" Dia. Great for science projects, classroom study, IC training classes or as an art object to frame and put on your wall.

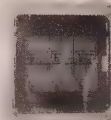
**G13303 \$6.00 ea.**



### IC Mask

These are actual glass masks used in the process of making sophisticated ICs. Each mask is in a heavy plastic case. These masks cost a fortune to manufacture and they are fascinating to study the patterns under a magnifying glass or microscope. We had these before and they sold out very fast. We have a very limited quantity this time. Each mask is different. Sizes vary, but overall minimum size of the glass mask is at least 6" square x 0.25" thick. Great for universities, educational use or just a unique art object.

**G14259 \$25.00 ea.**



### Special Glass Tile

This 4 5/16" square x 0.32" thick glass tile appears to have a special coating on it. Even though when you set it on a piece of paper it looks like it has a very slight tint, it actually reflects pinkish images from incandescent lamps so we suspect it is some sort of filter for lasers- we really don't know. Brand new, wrapped in tissue paper. These look like they cost some company a fortune!

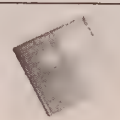
**G14379 99¢ ea.**



### Large IC Die

This is an actual silicon IC die that would be have been installed in a commercial IC. There was some defect that prevented them from going into the final lead wire bonding assembly stage. Each die is about 10mm sq x .35mm thick and the top surface looks like its gold plated (we don't know for sure). Great for study or to make "electronic jewelry."

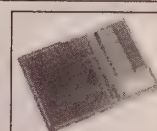
**G1922 \$1.25 ea. • 9/\$7.95**



### Beautiful Large IC Die

These may have been destined for a large microprocessor IC, but we aren't sure. What we do know about this is that it is a beautiful .66" L x .5" gold colored piece of silicon with intricate etched patterns. These are fascinating to study with a magnifying glass or low power microscope. Each has a small "dot" in the center (probably indicating a failed auto test reading). Make unique electronic jewelry with these. Great for classroom study also. Each of these die typically cost the companies over \$100 ea.

**G13710 4/\$1.00**



As above but consists of a large peel off 8" wafer containing 125 individual die that can be simply lifted off one at a time from a protective backing. Note: a few die may be cracked but it will be less than 5 pieces of the 125.

**G13711 \$25.00**

### 1.6" Suction Cup

Small suction cup has a hole and channel to allow wire or string to be connected to it. This cup can hold firmly onto a glass window and you can suspend banners, objects etc by way of a string or wire. See-thru light pink color.

**G14813 2/99¢**



### Test/Experimental Silicon Solar Cell

This silicon solar cell features an output of .5V open circuit voltage and a short circuit current of 120mA. It is mounted in a special pale yellow plastic card like holder and has 3" long color coded flexible leads to make it easy to experiment with or test the output under sunlight. The use of the special plastic card prevents breakage due to handling. Size of card holder about 3.25" x 1.5".

**G15231 \$1.49 ea.**



### White LED Flashlight w/ FM Radio

Compact Crank Type 3 white LED flashlight with built-in FM radio is great for emergency or everyday use. No need to buy batteries because you simply crank the handle a few times to recharge the built-in rechargeable batteries. Yellow flashlight puts out a nice bright white beam, and built-in FM radio features scan control, volume and reset, produces a nice sound from the built-in speaker. Size about 7"L. Has convenient carrying handle that makes it great for camping. Brand new!

**G14851 \$19.95 ea.**



### Micro CRT Tube NEC C1M30P4

Miniature CRT tube made for a tiny oscilloscope. This tube is about 3 1/2"L and has a flat screen of 7/8" x 1". This tube is new with NEC label, however we have no data or specs on it.

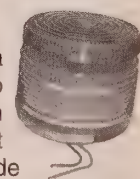
**G15254 \$24.95 ea.**



### 24VDC Giant Warning Light

Amber colored warning light flashes a bright warning when connected to 24VDC. These are commonly used on work vehicles, forklifts, etc. Size of unit is about 5"Dia. x 4.8"high. Can be made to flash or stay on continuously. Federal model #141. Rated 21.5Watts, 24VD.- 9Amp. Brand new.

**G14798 \$19.95 ea.**





### Automatic TV and Video Game Selector Switch

There's no need to operate a manual switch or change in and out cables with this unique game switch. It automatically shunts the antenna when you turn on the video game and then restores the antenna when you turn off the game. Standard 75Ω input/output. No external power needed. Compatible with most video games and TV/VCR systems. New.

**G12903 \$2.49 ea.**



### Air Bladders

These are small air bladders that were made to go inside blood pressure cuffs. If you connect a hose between one of these and the above pump they can be inflated in seconds. These are handy for making diving and surfacing robots or various strange air operated lifts. The tiny one is about 4 7/8" x 2 3/8" (deflated) and the larger one is 8 7/8" x 4 13/16" (deflated). The tiny one has one extra input hole which must be plugged before inflating.



<b>Tiny</b>	<b>G13242</b>	<b>\$1.49 ea.</b>
<b>Larger</b>	<b>G13245</b>	<b>\$2.00 ea.</b>

### Metal Digital Counter

Mechanical digital counter features a 1/4" L x 1/8" dia. slotted shaft which operates a 4 digit mechanical counter. As the shaft turns the first digit (tenths) moves from 0-9. When you have turned the shaft one complete revolution the ones digit indicates 1. Counts up to 999.9. Size about 3/4" dia. x 3/4" L. Mounting plate is 1.28" L x 0.77" W. Brand new-very precision made in England. Blowout price.

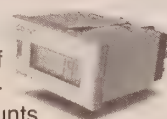
**G14353 \$1.99 ea.**



### Omron Self Contained H7EC-BLM Totalizing Counter

This handy electronic counter is self contained including the battery. Features an 8 digit LCD display so it counts from 0 up to 99999999. The characters are 0.338" in height so they are easy to read. Panel mounts in a 1.76" L x 0.86" H hole. Display advances 1 count each time the 2 input terminals are shorted together or you can connect the 2 input terminals to the collector and emitter of an NPN transistor so that as pulses are sent to the base the unit will count them. Features manual reset switch on front or you can reset electronically by shorting the 2 reset terminals on back of counter. Count speed is up to 30CPS if using a relay or switch contact for input and up to 1kCPS if using a transistor with pulses for input. Brand new in factory box with instructions. *These retail for over \$50 each!*

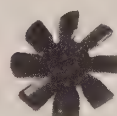
**G14229 \$24.95 ea.**



### Miniature 8 Blade Fan Blade

This black nylon fan blade fits into a 1.5mm motor shaft. Overall outer diameter about .86" x .20" Thick. New!

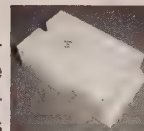
**G15250 \$1.00 ea.**



### High Voltage Gas Flame Igniter

High voltage Harper Wyman KOOL-LITE® Flame igniter units. These were designed to ignite gas flames in furnaces and gas cook stoves. The units are designed to operate from 120VAC 60HZ. On the web you will discover a website that has a schematic of one of these and gives information on using the transformer inside these to trigger a laser. We don't supply any info on this and we caution that you should use extreme caution when working with this or any other high voltage supply. New - We are selling them for their original application for repair or replacement - not for any other use. Aprox. size: 4.66" x 2.8" x 1.53". Item number P/N 6542.

**G13470 \$4.95 ea.**



### Large PC Board Ferrite Antenna

This is a 4 1/8" x 2 5/8" circuit board with a coil trace pattern etched into it. On top of the circuit board is a ferrite slab which covers the entire board. There are 4 mounting holes and a metal plate covers one side. The coil terminates in a small 6 pin connector. The entire assembly is precision made and looks like it must have been a high cost item. It has the following part number: LEIV-2V,94V-0, 0002TDII. The entire assembly is only 0.2" thick. Brand new.

**G2009 \$5.00 ea.**



### Slot Car Controller

Made by Tradeship, this handheld, 2 lead controller is rated 30 volts max, 5Amps. These are in factory retail packages, however they were probably made years ago. the color is red with black plunger and flexible wire leads with clips.

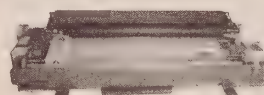
**G14117 \$4.95 ea.**



### 4 Color Pen Printhead by Alps

Small 6" x 2 1/2" x 1" printhead assembly by Alps, was made to use 4 different miniature pens (not included). This does contain 2 miniature servo motors, a unique solenoid and various nylon gears, levers, pulleys, cables, springs etc. There is no driver circuitry included and since we have no information, we must sell them "AS IS" only. This is a great source for miniature precision parts for a robot.

**G2092 \$7.95 ea.**



### Tiny Unusual Solenoid

This strange solenoid looks perfect for miniature robot applications. It consists of 2 rubber pads on 2 movable levers. When in the set position, if 9VDC is applied the levers spring out. Small size (about .71" x .67" x .29"). Brand new with color coded leads.

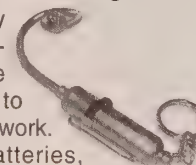
**G13641 \$1.00 ea.**



### Flexible Head Miniature White Light

Handy light features a tiny metal body and a 6" long flexible head with a bright white LED. Illuminate those hard to reach places. Great for hobby work. Comes complete with 3 batteries, keychain and pocket clip. Brand new in retail blister package. Makes a great Christmas stocking stuffer.

**G14953 \$4.95 ea.**



### Electronic Surprise Box

We have a tremendous quantity of various items which we have too few to advertise. We have packaged a good assortment containing various semiconductors, resistors, capacitors, hardware, coils, etc. Picture shows representative box, however each box is different.

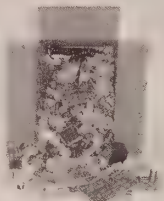
**G2200 \$3.25 ea.**



### Super Size Electronic Surprise Box

This is similar to our G2200 surprise box but it contains over twice as many goodies. It also includes larger assemblies or larger products in addition to all the regular smaller items. Tremendous value! Picture shows representative box, however each box is different.

**G9321 \$5.95 ea.**



### Micro Geiger Mueller Tube

Tiny thin walled GM tube is only 1.3" long by .36" diameter. Designed to detect primarily Gamma radiation. Build the world's smallest Geiger counter with this tube. Operating Voltage range 450-650 volts

**G2903 \$34.95 ea.**



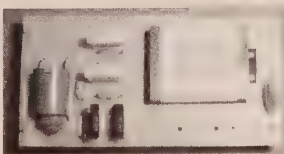
## Voltage Converters

### TDK 5VDC to High Voltage Inverter

Miniature inverter by TDK part # CXA-2090 operates on 3 to 5VDC and will drive most fluorescent tubes. Can also be used as a high voltage generator. Size only 2 1/4" L x 1 1/8" W x 1/2" H. Has 4 pins (2 for input voltage and 2 for output voltage) that are labeled. Sorry, no schematic or other data available. Brand new.

**G12866 \$2.49 ea.**

**10/\$20.00 • 100/\$180.00**



### Mini 5VDC to -30VDC Voltage Converter

Small 5/8" x 1 5/8" x .25" converter circuit converts input voltage of 3V up to 5VDC into an output voltage of -27V on one output and -30V on the other. Output current is in the 3-4ma range. Has 4 functional leads: common, + input, -27VDC output and -30VDC output. With simple hookup diagram. Brand new.

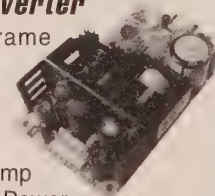
**G5097 \$1.49 ea.**



### Power General DC2-40-1AC Regulated Dual Output DC-DC Converter

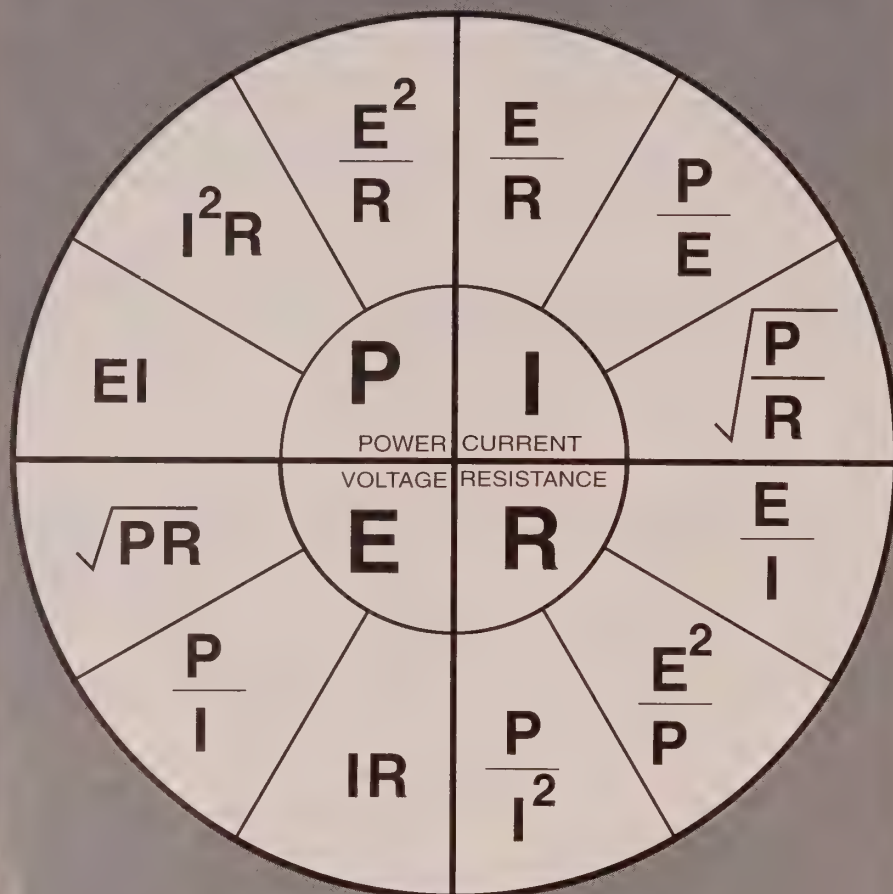
Compact 5" x 3" open frame switching supply operates on 36 to 75VDC and puts out 12VDC 3Amp and 5VDC 5Amp. Input: 36VDC - 75VDC Output: +12VDC, 3Amp and +5VDC, 5Amp. Made by Power General. These are brand new! Blowout pricing!

**G14598 \$3.99 ea.**





## Ohm's LAW for DC Circuits



## Resistance Formulas

Resistors in series:

$$R_{\text{total}} = R_1 + R_2 + R_3 + \dots$$

Two resistors in parallel:

$$R_t = \frac{R_1 R_2}{R_1 + R_2} \quad \text{OR} \quad R_1 = \frac{R_t R_2}{R_2 - R_t}$$

Equal resistors in parallel:

$$R_{\text{total}} = \frac{R}{n} \quad \text{Where } n \text{ is the number of resistors.}$$

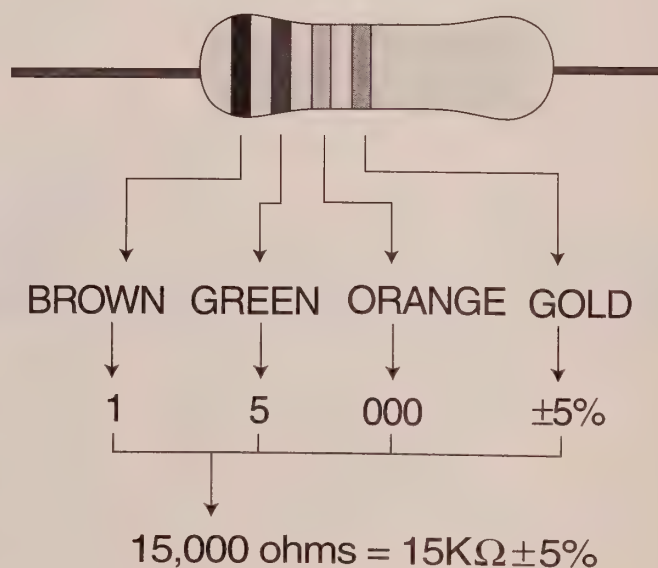
Resistors in parallel, general formula:

$$R_{\text{total}} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots}$$

## RESISTOR COLOR CODE

COLOR	1st DIGIT	2nd DIGIT	MULTIPLIER
BLACK	0	0	1.
BROWN	1	1	10.
RED	2	2	100
ORANGE	3	3	1,000 (K)
YELLOW	4	4	10,000
GREEN	5	5	100,000.
BLUE	6	6	1,000,000. (M)
VIOLET	7	7	10,000,000.
GRAY	8	8	100,000,000.
WHITE	9	9	1,000,000,000.

TOLERANCE: No COLOR 20%, SILVER 10%, and GOLD  $\pm 5\%$ .





# ORDERING INFORMATION

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We accept Visa/MasterCard, American Express, Checks and Money Orders for payment of your order. NOTE: Personal checks may be held for clearance before shipping your order.

### CANADA MEXICO

We accept Visa/MasterCard, American Express and Money Orders drawn on U.S. banks in U.S. funds only (personal or company checks not accepted). Please include extra shipping.

### ALL OTHER FOREIGN COUNTRIES

We are sorry, but due to the greater amount of paperwork, we have a \$50.00 (plus shipping) minimum order to Foreign Countries (except Canada and Mexico). Only Money Orders drawn on U.S. banks in U.S. funds or Visa/MasterCard and American Express credit cards are accepted.

## OPEN ACCOUNT ORDERS

NEW

Schools and Government Agencies: We now will accept open account orders (\$100 minimum) from most schools and government agencies. Please note: Our terms are NET 30 and since we usually can't obtain more of the items listed we do not backorder. You will be invoiced for only what we have available that is on your purchase order. Sorry, no verbal purchase orders accepted—you must fax or mail your official purchase order. Call our toll free line 1-800-445-0697 if you have questions.

## C.O.D. AND OPEN ACCOUNT

We do not accept C.O.D. or Open Account orders (except from schools and government agencies). See above.

## SHIPPING

Please include \$6.00 shipping to cover up to 2 lbs. to anywhere in the Continental U.S.A. We ship most order by UPS surface, therefore, we must have a street address. If you live outside of the Continental U.S.A., or must have your order shipped to a P.O. box, you must include a minimum of \$6.00 shipping. Hawaii, Alaska, Canada and Mexico orders must include at least \$6.00 for shipping. If shipment of your order costs more than \$6.00, we will usually still send your order (unless amount owed is too great), but we will attach a note telling you how much more you need to remit to us. UPS surface takes between 4 and 8 working days (M-F) to deliver your package after we give it to them. Please note that if we are shipping to a residential address, UPS charges more to make the delivery. If your order is for a large quantity of heavy items such as transformers, speakers, motors, etc., you will need to include more for shipping, as these packages are over 2 lbs. We normally process all orders within 3 days after receipt of the order, however, if you have paid for your order with a personal check, we may wait for our bank to clear your check.

## RUSH SERVICE

If you would like same day shipment, and you have paid for your order with Visa/MasterCard, American Express, Money Orders or Cashiers Check, please include \$10.00 extra RUSH charge (in addition to the \$6.00 shipping charge). We will then process your order within 24 hours and ship it out via UPS blue label rush shipping (up to 2 lbs.) Normally, blue label arrives anywhere in the Continental U.S.A. within 3 working days. On large quantity orders, our rush service costs more than \$10.00, so please call for actual costs if this applies.

## RETURNS

Kits may be returned within 30 days only if they have not been opened. Parts may be returned within 30 days if they are in original condition. No adjustments whatsoever can be made after 30 days. **All returned items are subject to a 15% restocking fee.**

## A NOTE ABOUT OUR KITS

Kits cannot be returned for any credit adjustment or refund once they have been opened. We do however, have a repair service. If your kit fails to operate, you may return it to us with a check for \$8.00 and we will repair your kit and return it by UPS to you. All requests for repairs must be made within 30 days of your original order date and the \$8.00 amount must be included with your returned kit (our actual costs are much higher than \$8.00 - we offer this as a service to you). We reserve the right to refuse to repair any kit which our technicians determine to be uneconomical to repair!



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**WM-C40002P 40 Character  
x 2 Line LCD Display**

Very nice LCD display with yellow/green backlight. This display consists of forty 5 x 8 dot characters x 2. It has all required ICs on back of display PC board. There is a spec sheet on the internet for this late model display. Overall size of entire module is 7 1/8" x 1 1/4". Brand new.

G15263 \$4.95 ea.



**Large 8mm White LED**

Clear lens 8mm LED lights up bright white. Operates on 3.6V to 4.0VDC @ 25mA. Full length leads. Prime LED. Special Blowout price!

G15191 2/\$1.00

**Super Quality Acrylic Domes**

These domes make great additions to small robots. They are large enough to mount sensors, small circuit boards, LEDs, lamps, etc., underneath. Each dome is 2 3/4" in Dia. plus a .5" mounting lip. The highest part of the dome (at the center) is about 1" Tall. These were made for large projection TVs and came in to us in bulk so they may have slight scratches or dust on the domes.

Clear	G15338	\$1.00 ea.
Red See-Thru	G15339	\$1.00 ea.
Green See-Thru	G15340	\$1.00 ea.



**Tiny Vibrating Pager Motor**

Small pager motor is only .47"L x .26" Dia. It is securely mounted in a mounting clip that has 3 pins that can be soldered to a PC board. Has 1" long flexible color coded leads and operates from 1.5VDC. Motor produces a nice vibration from the "D" shaped weight mounted to its shaft. Great for silent alerts, miniature robots, etc. Brand new!

G15241 99¢ ea.



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**Buehler Powerful DC Gearhead Motor**

Powerful gearhead motor by Buehler part# 1.61.046.103.02 operates at 60rpm when 12VDC is applied. Size of motor including gearhead is about 3.6"L x 1.38"Dia. Shaft is 1.3"L x .24"Dia. "D" type. Has flexible color coded power leads. To reverse shaft direction just reverse polarity to power leads. Will operate from 3VDC up to 30VDC. Great for robotic applications. New.

G15291 \$15.95 ea.



**Tiny Blinking EL Driver and Red EL Wire**

Great little combination package for unique lighting effects. Consists of a small 1.64" x .87" x .38" driver which is self contained with 2 lithium coin cells. When you press the "ON" switch, and connect the output to the 2 ft. piece of EL wire, it will start blinking on and off. The wire glows a nice red color in a dark room and can be sewn to clothing, glued to a sign in the shape you create, etc. All you need to do is strip the covering off of the EL wire and

connect (solder and/or tape) to the 2 lead output of the driver. Brand new set of wire and tiny EL driver.

G15261 \$7.95 ea.



**Our Most Powerful Fan**

**Delta 120mm 12VDC  
Model AFB1212SHE**

This 120mm (4.74") sq. x 38mm (1.5" thick fan type AFB1212SHE puts out an incredible 152CFM of cooling. It operates on 12VDC @ 1.5Amp and operates at 3700rpm 53dBA. These have flexible red and black power leads terminating in a standard 2 pin female connector. Brand new. Compare our low price to others!

G15317 \$4.95 ea.



**3.6V Ni-MH Cordless Phone Battery**

Brand new battery pack consists of 3 "AAA" Ni-MH batteries connected in series. Rated 3.6V @ 600mAh. Features 2 flexible color coded leads with 2 pin female connector. This is a very popular battery pack that works in many Audiovox, Ericsson, GE, GP, Panasonic, Sanyo, Southwestern Bell and Radio Shack phones. Type CPH-464X. Prime. These are worth \$14.99 and more.

G15262 \$1.99 ea.



**Super Power 4 1/2"sq. Silicon Solar Cell**

This 4 1/2" square polycrystalline solar cell has the flexible "top tab wires" attached. Output of the cell is .5V open circuit voltage and 1.8 to 2Amps short circuit current. These are very powerful cells and can be connected in series to make super powerful panels. May have slight edge chips, however this does not effect its performance.

G15234 \$5.95 ea.



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